Welcome to Rock Valley College!

On behalf of everyone at Rock Valley College, it is my pleasure to welcome you and to thank you for letting us play a part in your life's journey.

For more than 50 years RVC has been helping students like you continue on their path as they pursue higher education. No matter if your goal is to earn a certificate or an associate degree, or to gain the skills and experiences necessary to transition immediately into the workforce, or to transfer to a four-year institution, we are glad you have chosen Rock Valley College.

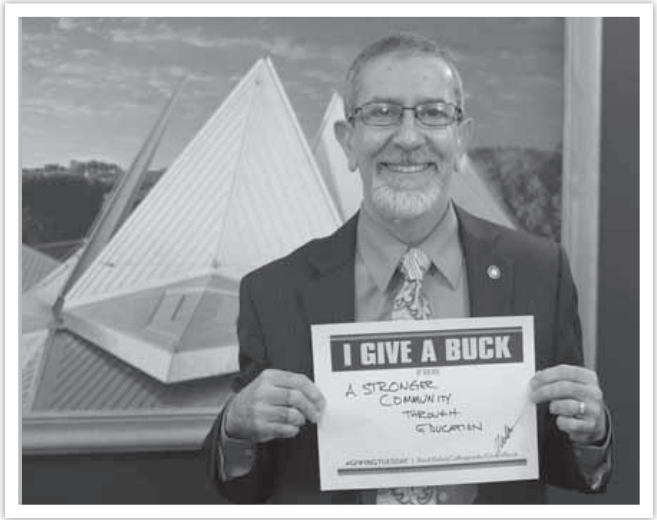
If you haven't already, be sure to visit our beautiful Main Campus in northeast Rockford, or any of our sites throughout the community. We have a long-standing commitment to provide world-class instruction in state-of-the-art facilities, to best prepare our learners.

I am confident that you will find our instruction, staff, programs, and facilities to be of the highest quality. We challenge, support and inspire students to take the education, skills, and training they receive here and to use it to improve their lives and our community.

Welcome to Rock Valley College. I look forward to seeing you on campus soon.

Sincerely,

Mike Mastroianni
President, Rock Valley College



President Mike Mastroianni - see more about the RVC Foundation's "Give A Buck" Campaign on page 8.

CONTENTS

RockValleyCollege

3301 N. Mulford Road, Rockford, IL 61114-5699 | (815) 921-7821 • (800) 973-7821 | RockValleyCollege.edu

Accreditation & Recognition

Rock Valley College is recognized by many national, regional, and state agencies. The college is accredited by The Higher Learning Commission (HLC) and is a member of the North Central Association of Colleges and Schools. Rock Valley is recognized by the Illinois Board of Higher Education and by the Illinois Community College Board (ICCB).

Mission Statement

Rock Valley College empowers students and community through lifelong learning.

Vision Statement

Rock Valley College empowers the community to grow as a society of learners through well-designed educational pathways, leading to further education, rewarding careers, cultural enrichment, and economic-technological development.

Core Values

Learner-Centered Community
Rock Valley College is dedicated to providing affordable lifelong learning opportunities that foster student success.

Mutual Respect
At all times, Rock Valley College upholds the dignity of each individual by being ethical, respectful, fair, and courteous in communications and actions.

Excellence
Rock Valley College maintains high expectations for teaching and learning and holds itself accountable for promoting continuous improvement.

Diversity
Rock Valley College promotes, celebrates, and embraces differences, including cultural and ethnic diversity and diversity of thought.

Collaboration
Rock Valley College fosters innovative, enriching partnerships within the college community and among others that serve the region.

Innovation
Rock Valley College is a forward thinking institution that explores creative approaches for the future.

Public Trust
Rock Valley College honors and upholds its commitment to the community through integrity of actions and efficient use of resources.

Mission & Vision Statements and Core Values
Board Report #7228
Revised/Updated July 28, 2015

General Education Statement of Philosophy

The General Education Program at Rock Valley College is designed to develop the knowledge, skills, and habits reflected in the lives of educated persons and basic to all professions so that RVC students are capable of leading rewarding and responsible lives as productive, global citizens. The General Education Program offers varied opportunities for students "to develop the breadth of knowledge and the expressive skills essential to more complex and in-depth learning throughout life" (adapted from the Illinois Articulation Initiative, 2000). With this philosophy as our focus, our general education courses are designed to help students achieve the following learning outcomes.

Institutional Student Learning Outcomes

Rock Valley College students will demonstrate the following skills and characteristics:

- **Analytic Reasoning:** Students will form logical inferences, judgments, or conclusions from facts or premises related to topics encountered in the classroom, workplace, and daily life.
- **Communication:** Students will exchange ideas effectively in a variety of settings.
- **Global Awareness and Responsibility:** Students will develop the knowledge and skills required to responsibly interact with social and natural communities, both locally and globally.
- **Personal Responsibility:** Students will accept responsibility for their personal and professional wellness and development, positioning themselves for life-long learning.

Details about how students demonstrate these learning outcomes can be found at:
RockValleyCollege.edu/StudentLearningOutcomes.

Catalog Disclaimer

The information/content in this catalog is accurate as of February 16, 2016 and is subject to change without prior notice or obligation. It is the student's responsibility to be aware of the information in this catalog and to keep informed as additions and corrections are announced.

Please check online for latest updates:
RockValleyCollege.edu/Catalog

Rock Valley College Board of Trustees*

Ashley Burks
Michael P. Dunn Jr.
Frank Haney
Lynn Kearney, *Secretary*
Katherine M. Kelly, *Chair*
Patrick Murphy
Bob Trojan
Alexander Day, *Student Trustee*
Mike Mastroianni, *President*
* Board as of January 26, 2016

Nondiscrimination Clause

It is the policy of Rock Valley College to provide equal opportunity in its admissions, employment, and educational programs and activities consistent with federal and state law. Discrimination is prohibited on the basis of race, color, religion, national origin, ancestry, citizenship status, sex, age, physical or mental disability, marital status, order of protection status, sexual orientation, including but not limited to gender-related identity discrimination, veteran status, or unfavorable military discharge, use of lawful products while not at work, genetic information, or other legally protected categories.

- **Title IV Consumer Information**
  Mr. James Heller, *Director, Financial Aid*
  (815) 921-4158
  J.Heller@RockValleyCollege.edu
- **Title IX and Section 504/ADA Compliance Officer – Employees**
  Ms. Jessica Jones, *Vice President of Human Resources*
  (815) 921-4755
  J.Jones@RockValleyCollege.edu
- **Title IX Coordinator – Students**
  Rick Daniels, M.S.Ed.
  Interim Dean of Students
  (815) 921-4187
  S.Daniels@RockValleyCollege.edu
- **Section 504 Coordinator – Students**
  Ms. Lynn Shattuck, *Director of Disability Services*
  (815) 921-2356
  L.Shattuck@RockValleyCollege.edu
- **Athletics**
  Ms. Misty Opat, *Athletic Director*
  (815) 921-3807
  M.Opat@RockValleyCollege.edu

This notice is available from Rock Valley College in additional alternative formats upon request.

Sexual & Other Harassment Policy

Rock Valley College is committed to providing an educational environment that is free from all forms of harassment as defined and otherwise prohibited by state and federal law. It is the policy of Rock Valley College that sexual harassment or any other form of harassment of a student by another student, an employee, or a third party, is prohibited and will not be tolerated. Any student or employee who is found after appropriate investigation to have violated this policy will be subject to disciplinary action, up to and including expulsion or termination.

Students who feel they have been a victim of harassment of any type, by another student, an employee, or third party, may contact:

Rock Valley College
Title IX Coordinator/Interim Dean of Students
Rick Daniels, M.S.Ed.
Student Center, Room 2110
3301 N. Mulford Road
Rockford, IL 61114-5699

RVC Accreditation Agencies

- **The Higher Learning Commission**
  230 South LaSalle Street, Suite 7-500, Chicago, IL 60604
  (800) 621-7440
  Website: ncahlc.org
- **Accreditation Review Committee on Education in Surgical Technology**
  (Surgical Technology Program)
  6 W. Dry Creek Circle, Suite 110, Littleton, CO 80120
  (303) 694-9262
  Website: arcstsa.org
- **Accrediting Council for Collegiate Graphic Communications, Inc. (ACCGC)**
  Ervin A. Dennis, Ed.D., ACCGC Managing Director
  1034 W. 15th Street, Cedar Falls, IA 50613-3659
  (319) 266-8432
  Email: ea.dennis@cfu.net
- **American Welding Society**
  (Welding Technology Program)
  8669 NW 36 Street, #130, Miami, FL 33166-6672
  (800) 443-9353 or (305) 443-9353
  Website: aws.org
- **Automotive Service Excellence**
  (Automotive Service Technology Program)
  (Instructor's Certification Every Five Years)
  National Institute for Automotive
  Service Excellence
  101 Blue Seal Drive, S.E., Suite 101
  Leesburg, VA 20175
  (703) 669-6600
- **Commission on Accreditation of Allied Health Education Programs (CAAHEP)**
  (Surgical Technology Program)
  1361 Park Street, Clearwater, FL 33756
  (727) 210-2354
  Website: caahep.org
- **Commission on Dental Accreditation (CODA)**
  (Dental Hygiene Program)
  211 E. Chicago Avenue, Suite 1900, Chicago, IL 60611
  (312) 440-2500
- **Commission on Accreditation for Respiratory Care**
  (Respiratory Care Program)
  1248 Harwood Road, Bedford, TX 76021-4244
  (817) 283-2835
  Website: coarc.com
- **Federal Aviation Administration**
  (Aviation Maintenance Technology Program)
  Chicago FSDO (DPA) DuPage Airport
  31W775 North Avenue, West Chicago, IL 60185
  (630) 443-3100
- **Illinois Bureau of Apprenticeship Training**
  (Apprenticeship Programs)
  USDOL/ETA/OATELS-BAT
  230 S. Dearborn Street, Room 656, Chicago, IL 60604
  (312) 596-5508
- **Illinois Department of Financial and Professional Regulation**
  (Nursing Programs)
  320 W. Washington Street, Springfield, IL 62786
  (217) 785-0800
- **Illinois Department of Public Health**
  (Certified Nursing Aide Program)
  535 W. Jefferson Street, Springfield, IL 62761
  (217) 785-5133
- **National Automotive Technicians Education Foundation**
  (Automotive Service Technology Program)
  101 Blue Seal Drive, S.E. Suite 101, Leesburg, VA 20175
  (703) 669-6650
- **Office of the State Fire Marshall**
  (Fire Science Program)
  1035 Stevenson Road, Springfield, IL 67203-4259
  (217) 782-4542

Memberships

- **American Association of Community Colleges**
  One Dupont Circle, NW, Suite 410
  Washington, DC 20036
  (202) 728-0200
- **American Council on Education**
  One Dupont Circle, NW
  Washington, DC 20036
  (202) 939-9300
- **Association of Surgical Technologists (AST)**
  6 W. Dry Creek Circle, Suite 200
  Littleton, CO 80120-8031
  (800) 637-7433
  Website: AST.org
- **Council for Advancement and Support of Education**
  1307 New York Avenue, NW, Suite 1000
  Washington, DC 20005
  (202) 328-2273
- **Council of North Central Two Year College**
  513 Split Rock Drive
  Jefferson City, MO 65109
  (573) 634-4848
  Email: cnctyc@embarqmail.com
- **National Board of Surgical Technology and Surgical Assisting**
  6 W. Dry Creek Circle, Suite 100
  Littleton, CO 80120-8031
  (800) 707-0057
  Website: nbsta.org
- **National Organization for Associate Degree Nursing**
  (NOADN National Office)
  7794 Grow Drive
  Pensacola, FL 32514
  (850) 484-6948, (877) 966-6236

High Schools within College District No. 511

Public high schools in the service area:

- Rockford Auburn
- Rockford East
- Rockford Guilford
- Rockford Jefferson
- Belvidere
- Belvidere North
- Byron
- Durand
- Machesney Park Harlem
- Rockton Hononegah
- Oregon
- Pecatonica
- North Boone
- South Beloit
- Stillman Valley
- Winnebago

Private high schools* in the service area:

- Boylan Catholic
- Christian Life Schools
- Firstborn Christian Academy
- Keith Country Day
- Rockford Lutheran
- Lydia Urban Academy-Rockford
- North Love Christian
- Our Lady Sacred Heart Academy
- Regents Christian Academy
- Rock River Academy
- Rockford Christian Schools
- Rockford Iqra' School

*List of schools provided by the National Center for Education. This list may not reflect all private high schools in the RVC district.

WELCOME

Academic Calendar 2016-2017

2016 SUMMER – SESSION I – FOUR-WEEK SESSION (14 days, plus 1 final exam day)

May 16	(Monday)*	Classes Begin
May 30	(Monday)	College Closed
June 8	(Wednesday)	End of Classes
June 9	(Thursday)	Final Exams for Summer I
June 12	(Sunday)	Grades Due by 11:59 p.m. Sunday Night

2016 SUMMER – SESSION II – EIGHT-WEEK SESSION (28 days, plus 2 final exam days)
FOUR-WEEK SESSION (14 days, plus 1 final exam day)
SECOND FOUR-WEEK SESSION (14 days, plus 2 final exam days)

June 13	(Monday)*	Classes Begin for First 4-week and 8-week Sessions of Session II
July 4	(Monday)	No Classes/College Closed
July 7	(Thursday)	Final Exam Day for First 4-week classes of Session II
July 7/8	(Thursday/Friday)	No Classes for 8 week classes/College Open
July 11	(Monday)	Classes Begin for Second 4-week Session of Session II
August 2	(Tuesday)	End of Classes
August 3/4	(Wednesday, Thursday)	Final Exams for Session II
August 7	(Sunday)	Grades Due By 11:59 p.m. Sunday Night

2016 FALL SEMESTER

August 20	(Saturday)*	Weekend Classes Begin
August 22	(Monday)*	Weekday Classes Begin
September 3, 4, 5	(Saturday, Sunday, Monday)	No Weekend Classes/College Closed
September 6	(Tuesday)	Faculty & Staff Development Day/No Classes/Offices Closed
November 23	(Wednesday)	Fall Recess/No Classes/College Open
November 24, 25, 26, 27	(Thursday, Friday, Saturday, Sunday)	No Classes/College Closed
December 9	(Friday)	End of Weekday Classes
December 10	(Saturday)	End of Weekend Classes
December 12-16	(Monday - Friday)	Final Exams for Weekday Classes
December 17	(Saturday)	Final Exams for Weekend Classes
December 18	(Sunday)	Grades Due by 11:59 p.m. Sunday Night
December 24 – January 2	(Saturday - Monday)	No Classes/College Closed

2017 SPRING SEMESTER

January 3	(Tuesday)	Offices Open
January 6	(Friday)	Faculty Development Day/College Open
January 7	(Saturday)*	Weekend Classes Begin
January 9	(Monday)*	Weekday Classes Begin
January 16	(Monday)	No Classes/College Closed
March 5-12	(Sunday-Sunday)	Spring Recess - No Weekday or Weekend Classes
March 13 /18	(Monday/Saturday)	Weekday / Weekend Classes Resume
April 13	(Thursday)	Faculty & Staff Development Day/No Classes/Offices Open
April 14, 15, 16	(Friday, Saturday, Sunday)	No Classes/College Closed
April 29	(Saturday)	End of Weekend Classes
May 5	(Friday)	End of Weekday Classes
May 6, 8, 9, 10, 11, 12	(Sat, Mon, Tues, Wed, Thurs, Fri)	Final Exams for Weekend & Weekday Classes
May 12	(Friday at 6 p.m.)	Commencement Exercises
May 14	(Sunday)	Grades Due By 11:59 p.m. Sunday Night

* Most classes (16-week) begin this week. Check class schedule for specific dates.
Deadlines vary for courses less than 16 weeks in length.
Contact the Records and Registration Office for specific dates at (815) 921-4250.

Phone Directory

DEPARTMENT — PHONE

Main Switchboard ..... **(815) 921-7821**
Admissions Office ..... **(815) 921-4250**

ACADEMIC DIVISION DISCIPLINES & DIVISION OFFICES

Allied Health Programs – Division Office ..... **(815) 921-3200**
- Dental Hygiene – DNT
- Health Courses (HLT 101, 110)
- Fire Science – FRE
- Respiratory Care – RSP
- Surgical Technology – SRG

Business/Computers & Info Sys – Division Office ..... **(815) 921-3101**
- Accounting – ATG
- Business – BUS
- Computer & Information Systems – CIS
- Management/Marketing – MGT/MKT
- Office – OFF/PCI
- Personal Computer Technology – PCT
- Web Information Technology – WEB

Communication – Division Office ..... **(815) 921-3338**
- Composition & Literature – ENG/JRN/LIT
- Developmental English – ENG 099
- Mass Communication – COM
- Speech – SPH

Engineering & Technology – Division Office ..... **(815) 921-3101**
- Building Construction Management – BCM
- Electronic Engineering Technology – EET
- Manufacturing/ Engineering – MET/EGR
- Sustainable Building Science – SBS
- Sustainable Energy Systems – EET

Mathematics – Division Office ..... **(815) 921-3510**
- Mathematics – MTH

Nursing – Division Office ..... **(815) 921-3261**
- Nursing Aide – NAD
- Associate Degree Nursing – NRS
- Phlebotomy – PLB

Sciences – Division Office ..... **(815) 921-3471**

LIFE SCIENCES
- Biology – BIO

PHYSICAL SCIENCES
- Astronomy – AST
- Atmospheric Science – ATS
- Chemistry – CHM
- Geology – GEL
- Physical Geography – PGE
- Physics – PHY

Social Science & Humanities – Division Office ..... **(815) 921-3317**
- Anthropology – ANP
- Art – ART
- Criminal Justice – CRM
- Economics – ECO
- Early Childhood Education – ECE
- Education – EDU
- Fitness, Wellness, & Sport – FWS
- Geography – GEO
- History – HST
- Humanities – HUM
- Modern Languages – FRN, GRM, SPN
- Music – MUS
- Philosophy – PHL
- Political Science –PSC
- Psychology – PSY
- Sociology – SOC

Technical Programs – Division Office ..... **(815) 921-3000**
- Automotive – ATM
- Aviation – AVM
- Fluid Power – FLD
- Graphic Arts – GAT
- Welding – WLD

Theatre – Division Office ..... **(815) 921-2167**
- Theatre – THE

TEACHING & LEARNING SERVICES

Disability Support Services (Section 504 Coordinator) ..... **(815) 921-2371**

High School Connections [Main Campus–Student Center] ..... **(815) 921-4080**
- Dual Credit
- Dual Enrollment
- Running Start
- Advance Now

Testing Center [Main Campus–Student Center] ..... **(815) 921-2380**
- Placement Testing
- Exam Proctoring
- Certification Exams

Tutoring & Writing Center [Main Campus–Student Center] ..... **(815) 921-2370**

TRANSITIONAL OPPORTUNITIES & EDUCATION

Adult Education & Literacy (GED & ESL) [RVC Downtown] ..... **(815) 921-2001**
- **Dislocated Workers Program (DWP)** [N. Main Street] ..... **(815) 921-2200**

Developmental Reading & ENG 082 & 097 ..... **(815) 921-2001**

Office of Employment & Grants [N. Main Street] ..... **(815) 921-2200**

OTHER IMPORTANT CONTACT AREAS

Academic & Transfer Advising ..... **(815) 921-4100**
- Academic Transfer Advising
- Academic Goal Planning

Admissions & Recruitment [Main Campus–Student Center] ..... **(815) 921-4250**
- Getting Started Information
- Campus Tours

Athletics [Main Campus–Physical Education Center (PEC)] ..... **(815) 921-3800**

Bookstore [Main Campus–Student Center] ..... **(815) 921-1680**

Career Services, Advising & Placement ..... **(815) 921-4091**

Center for Learning in Retirement (CLR)
[Bell School Road Center] ..... **(815) 921-3930**

Community & Continuing Education (CCE) ..... **(815) 921-3931**

Cooperative Agreements ..... **(815) 921-4091**

Distance Learning [Main Campus–Educational Resource Center (ERC)]
- EAGLE Support Center ..... **(815) 921-4646**
  EagleSupport@RockValleyCollege.edu

Financial Aid & Scholarships ..... **(815) 921-4150**

Getting Started Center [Main Campus–Student Center] ..... **(815) 921-4094**
- Getting Started Sessions
- New Student Welcome Events
- STU 100 – Planning for Success
- Student Success Workshops

Foundation Office [Main Campus–Spring Brook House] ..... **(815) 921-4500**

Information Center [Main Campus–Student Center] ..... **(815) 921-4250**
- Password Resets
- Student IDs

Intercultural Student Services [Main Campus–Student Center] ... **(815) 921-4116**

Judicial Affairs [Main Campus–Student Center] ..... **(815) 921-4284**

Library [Main Campus–Educational Resource Center (ERC)] ..... **(815) 921-4600**
- Circulation Service ..... **(815) 921-4615**
- Interlibrary Loan ..... **(815) 921-4607**
- Reference Desk ..... **(815) 921-4619**
- Serials ..... **(815) 921-4623**

Personal Success Counseling [Main Campus–Student Center] ..... **(815) 921-4091**

Records & Registration Office [Main Campus–Student Center] ... **(815) 921-4250**

Rock Valley College Downtown ..... **(815) 921-2000**

RVC Police Department – Non-Emergency ..... **(815) 921-4350**
– Emergency ..... **(815) 654-4357**

Samuelson Road Center (SAML)
Student Development Services ..... **(815) 921-4146**

Starlight Theatre / Studio Theatre – Box Office ..... **(815) 921-2160**

Student Life [Main Campus–Student Center]
- Student Government Association (SGA)
- Main Office ..... **(815) 921-4183**

Student Newspaper *(Valley Forge)* [Main Campus] ..... **(815) 921-3330**

Traffic Safety Program ..... **(815) 921-3940**

TRIO [Main Campus–Student Center]
Achieve ..... **(815) 921-4280**
Complete ..... **(815) 921-4114**

Tuition Payments ..... **(815) 921-4414**

Veterans Services [Main Campus–Student Center] ..... **(815) 921-4163**

Rock Valley College Foundation

Established in 1979, the Rock Valley College Foundation is a 501(c) (3) non-profit corporation responsible for encouraging and administering private gifts to enhance Rock Valley College's ability to serve the public. The Foundation recognizes that college funds are limited and supplemental private gifts are needed to provide rewarding, stimulating, and challenging educational experiences. Gifts to the Foundation either directly or indirectly improve the quality of educational instruction, provide better equipment and facilities, and make it possible for more students to obtain an education.

Since 1999, the Rock Valley College Foundation has raised more than $13.2 million in cash and pledges for scholarships, grants to faculty and staff for innovative projects and programs outside the college budget, equipment, campus beautification, and capital projects. Of that over $1.9 million has been awarded to students through the Foundation scholarship program. In addition, the Foundation has allocated over $965,000 in grants to faculty and staff to enhance classroom instruction, experiential learning, and professional development for Rock Valley College instructors and staff.

The Foundation is governed by a board of directors comprised of dedicated community and business leaders, as well as alumni, who share the college's vision of providing unparalleled quality in education, career training, and professional development for residents of the Rock Valley College district. Through their contributions and support, they assist the college in fulfilling its role as a pace-setter in higher education for the greater Rockford region.

For more information about how any interested person can help the Rock Valley College Foundation provide excellence in higher education to our community, contact the:

Rock Valley College Foundation
3301 N. Mulford Road, Rockford, IL 61114-5699
(815) 921-4500
RockValleyCollege.edu/Foundation.

As part of Giving Tuesday, RVC students and employees donated to the "Give A Buck" Campaign to help support adult education and scholarships.

***"Where Dreams Take Flight" 50th Anniversary Gala,** October 3, 2015, at our new Aviation Career Education Center*

***Excalibur Check Donation:** A $16,000 donation was made by prior winners of the Rockford Register Star Excalibur award to support scholarships for the Aviation Maintenance Technology program.*

***Goodwill Industries of Northern Illinois** has been a generous partner of the College by donating $68,000 since 2010 in scholarship awards for deserving students.*

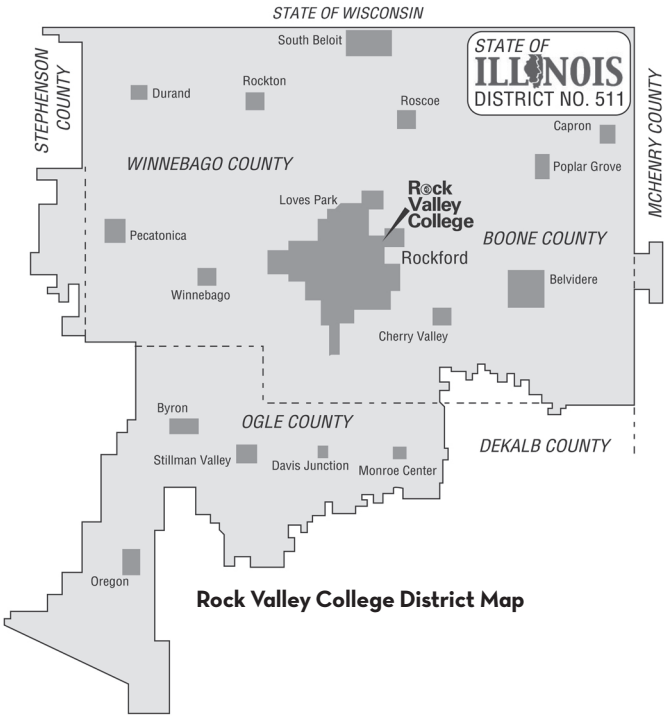
About the College

For over 50 years, Rock Valley College (RVC) has offered comprehensive educational opportunities in a broad range of subjects to tens of thousands of residents of its service district.

The Main Campus of the college is located on a 217-acre tract of land, at the northeast corner of Mulford and Spring Brook Roads in northeast Rockford ("RVC Campus and Building Locations" maps, see page 180 and inside back cover).

RVC's Main Campus is known for being one of the most beautiful in the state. Connecting the two sides of the Main Campus, the scenic bridge spans the Spring Creek. It houses the college's most recognized landmark – the classic Alumni Clock (its plague reads: 25 Years, 1964-1989, donated by the RVC Foundation, the Student Commission, and Private Donors.)

RVC's District #511 *(see map below)* ***is comprised of Winnebago and Boone counties, and parts of Stephenson, Ogle, McHenry, and DeKalb counties.***



Rock Valley College District Map

STATS

Since opening for classes, RVC has grown from a small community college with 35 faculty members and 1,100 students to an institution of approximately 160 full-time faculty members, 250 part-time adjunct faculty (teaching credit classes) and nearly 7,500 students.

RVC SOCIAL MEDIA

Follow Rock Valley College on all of our social media platforms to stay connected, find out what's happening on campus, and learn important tips to keep you on track as a student!
You can also check out our blog: RVCInsider.com.

INTERCOLLEGIATE SPORTS

Seven teams of men's and women's intercollegiate sports are offered at RVC. The Golden Eagles compete in NJCAA Division III in men's and women's basketball, men's and women's soccer, women's softball and volleyball, and men's baseball. Many of the teams have enjoyed national prominence in recent years. RVC's rich athletic history includes over 150 All-Americans and 15 national championships. (See more about RVC's Athletics on page 30 or go to: RVCSports.com)

Rock Valley College GOLDEN EAGLES

CONFERENCE: N4C (North Central Community College Conference) • College of DuPage • Triton College • Joliet Junior College • William Rainey Harper College • Madison College • Wright College • Milwaukee Area Technical College

Nickname: Golden Eagles | **Colors:** Navy Blue & Gold

CURRENT FACILITIES

In addition to the Main Campus, the college offers degrees and related programs at facilities in the city of Rockford, Illinois, in Winnebago County:

- **Aviation Career Education Center**, 6045 Cessna Drive (61109) at the Chicago-Rockford International Airport, home of the Aviation Maintenance Technology Program (see more on pages 54 & 55 or go to: RockValleyCollege.edu/Aviation).
- **Bell School Road Center**, 3350 N. Bell School Road (61114), home of the college's Center for Learning in Retirement Program.
- **Samuelson Road Center**, 4151 Samuelson Road (61109), home to several health and technical programs, as well as general education classes, Adult Education (until Fall 2016), and Traffic Safety [just east of Rockford Jefferson High School].
- **N. Main Street Center**, 303 N. Main Street (61101) [in the Supply Core Building], houses the Office of Employment and Grants/Workforce Development: "employment-based" Dislocated Workers Program (DWP), Elevate (Youth) Program, plus Refugee and Immigrant Services.
- **Rock Valley College Downtown**, 99 E. State Street (61104) [second floor, Rockford Register Star building] will be home to general education credit classes, Developmental Math and Reading, and Adult Education.
- **Community Sites**, RVC's Community and Continuing Education (CCE) classes are held throughout its district. (See more about RVC's CCE on page 167 or go to: RockValleyCollege.edu/CCE.)

Rock Valley College continues to grow and strengthen lifelong learning opportunities and to develop innovative partnerships that offer social, economic, and cultural enrichment to the community.

For more information about Rock Valley College, visit the college's website at: RockValleyCollege.edu.

About the College (continued from page 9) – Key Dates

BEGINNINGS

Prior to October 1964 Referendum: RVC original "Symbol-Logo" designed (which includes a small circle depicting the individual within the college environment, the widening circles surrounding the individual represent and symbolize the college, and the broadening community in mutual effort of growth industry development and community progress in which we study, work, and live.) ***In more recent years, these circles have also been known to illustrate the vision of Rock Valley College as making a difference through teaching, learning, and leading.***

October 10, 1964: college established (after a district-wide vote, when a referendum was approved, after a two-year study establishing the need for a community college).

December 1964: first Board of Trustees elected.

May 13, 1965: the Board of Trustees selected the 217-acre Spring Brook Farm owned by Dr. and Mrs. Rogers, on the northeast corner of Mulford and Spring Brook Roads, now considered the Main Campus.

September 29, 1965: "Opening Day" classes began (at the Naval Reserve Center on 15th Avenue in Rockford and Harlem High School, now Harlem Junior High School in Loves Park).

50th Anniversary Celebrations: in 2015, all year long we honored our 50 years, from 1965-2015, through weekly "50th Fridays history flashbacks," with special events, including an Ice Cream Social, *"The Sound of Music"* outdoor movie viewing, the Golden Futures 5K, "A Day at RVC," and "Where Dreams Take Flight" 50th Anniversary Gala.

COLLEGE MARKINGS

1965-1972: College Colors – Maroon & Gold; Mascot – Trojans.

1972-1995: College Colors–Brown & Gold; Mascot – Trojans.

1989: Clock on Bridge – Gift of Alumni, Student Commission, & RVC Foundation

1996: Wooden Mace – crafted for yearly Commencement Ceremony, from campus oak tree (struck by lightening)

1995-2014: College Colors – Navy Blue & Gold; Mascot – Golden Eagles – Reggie the Eagle.

February 5, 2014 – present: College Colors – Navy Blue & Gold; Mascot – Golden Eagles – Arvee the Eagle.

MAJOR BUILDING CONSTRUCTION & RENOVATIONS, PLUS CAMPUS ENHANCEMENTS

Summer 1966: on the Main Campus, "temporary buildings" for classrooms and offices were constructed, known as Bldg. A, Bldg. B, and Bldg. C; and buildings from the original farm – the farmhouse was named Bldg. E (Administration); the barn-Bldg. F (home to Studio Theatre) and a small building west of the barn - Bldg. G (currently the Piano Lab).

October 15, 1967: groundbreaking for permanent buildings (rural gothic design, including granite from the Midwest and redwood from California)

Fall 1969: three permanent buildings were completed on the east side of the campus creek: Boiler House, Classroom Building I (CLI), and Classroom Building II (CLII).

End of 1971: three more permanent buildings were completed: on the east side of the creek – the Educational Resource Center (ERC) [Library on the first and second floors, Performing Arts Room (PAR) on the ground floor]; on the west side of the creek – both the Physical Education Center (PEC) and Student Center (SC).

June 1, 1983: Dislocated Workers Program began with grant funding, set up at BELL.

Summer 1983: Starlight Theatre was transformed with a permanent seating shell, light booth, and stage as a result of community leader-led fundraising for a "Community Arts Center" and named the "Bengt Sjostrom Theatre" [in honor of a major benefactor].

January 1988: Technology Center opened north of the PEC.

Late 1990s: Bell School Road Center (BELL) renovated (formerly Bell Grade School, college-owned since early 1980s) home to the Center for Learning in Retirement (CLR).

Summer 1997: Fresh Beginnings, Dislocated Worker Program (DWP), and Refugee Training Program moved from BELL to the Illinois Job Training Center at 3134 11th St. (renamed ***The Workforce Connection*** in 2005).

1999: Board of Trustees facilities master plan projects began (looking 25 years into the future):
- enhancements to the athletic fields
- perimeter road added connecting both sides of campus

October 16, 2001: the Samuelson Road Center (SAML) was renamed the Stenstrom Center for Career Education (SCCE) [RVC Foundation campaign; donor: Stenstrom Companies – for Robert and Jan Stenstrom].

November 13, 2001: the Technology Center was renamed the Woodward Technology Center (WTC) [RVC Foundation campaign; donor: Woodward Governor Co./Charitable Trust].

2001/2003: the Starlight Theatre's Bengt Sjostrom Theatre (BST) was transformed architecturally with a one-of-a-kind, state-of-the-art, open-air, star-shaped roof.

2003: the "temporary buildings" Bldg. A, Bldg. B, and Bldg. C were razed.

Fall 2003: Support Services Building (SSB) opened [houses: Human Resources; Rock Valley College Police Department; Financial, Business, Print, and Mail Distribution Services; plus Facilities, Plant Operations, and Maintenance].

October 2003: Student Center was updated to be a "one-stop-shop" with registration, academic advising, and payment functions in one location.

January 2005: 9,000 sq. ft. was added to the Student Center [enlarged campus bookstore, built the Atrium for students, programs, lectures, and entertainment].

2006/2007: Educational Resource Center (ERC), first and second floors were remodeled and a "front door to the community" was added.

August 7, 2007: college Library was named in honor of Estelle M. Black (founding employee of the RVC Library, Assistant Director of the Rockford Public Library, civic leader, accomplished library leader).

June 30, 2008: Dislocated Workers Program and Refugee & Immigrant Services moved from 11th Street in with IL Workforce Connection/Unemployment Office into 303 N. Main Street (Supply Core bldg.).

In 2009: Physical Education Center (PEC) finished a 16-month renovation [green-build philosophy, College awarded gold level LEED status (Leadership in Energy and Environmental Design) – the first project of its kind in the Rockford area at the time].

August 5, 2010: beam signing ceremony for new Science and Math building [first new classroom building to open since 1988; goal - create a building to fulfill environmental, aesthetic and classroom-laboratory needs for students and faculty in mathematics, life and physical sciences].

October 18, 2010: downtown RVC presence established; separate campus facility opens – the Learning & Opportunity Center (LOC), in Stewart Square, 308 W. State St., Suite 250. [Credit, Developmental English and Math classes, as well as a Cohort Program, Placement Testing, Financial Aid, and Workshops.]

August 16, 2011: grand opening and naming of Karl J. Jacobs Center for Science and Math (JCSM) in honor of RVC's longest serving president. [106,000 sq. ft., includes multiple science labs, resource labs, and 14 classrooms. Numerous innovative sustainable technologies were incorporated into the building and RVC received its second LEED Gold certification for its design.]

Fall 2014 – Fall 2015: LOC moved from Stewart Square into the N. Main St. offices.

April 16, 2015: announcement new "Health Sciences Center" building [four-floors, 118,084 sq. ft., with classrooms and labs. RVC's programs will include: Nursing (CNA and RN), Dental Hygiene, Phlebotomy Technician, Respiratory Care, and Surgical Technology. In a collaboration, St. Anthony College of Nursing will occupy top two floors of the building and offer Bachelor, Master, and Doctorate degrees]. Classes are expected to begin Fall 2017 (see page 94).

August 24, 2015: Aviation Career Education Center (ACEC) opened for classes, at the Chicago-Rockford International Airport at 6045 Cessna Drive. [40,000 sq. ft. facility has four classrooms, four labs, and an aircraft hangar.]

January 26, 2016: Stenstrom Center for Career Education (SCCE) building was renamed the Samuelson Road Center.

August 22, 2016: a new location opening – RVC Downtown (RVCD), combining the (previous) LOC and the Adult Education program, along with Developmental English & Math, plus general education credit classes [second floor, RR Star building, 99 E. State Street].

COLLEGE PRESIDENTS

April 1965: Dr. Clifford G. Erickson (1966-1968) became the 1st president and the college was named "Rock Valley College."

November 15, 1968: RVC's first President Cliff Erickson stepped down; Robert Appel served as acting president for two months.

January 20, 1969: Dr. Karl J. Jacobs (1969-1997), became RVC's 2nd president. [President Jacobs was instrumental in the conception and implementation of the Technology Center and its programs opening in 1988.]

July 31, 1997: President Jacobs retired (after 27+ years of service).

September 1997: Dr. "Chip" (Roland J.) Chapdelaine (1997-2004) was selected as the 3rd president.

End of 2003: the Rock Valley College Board of Trustees unanimously voiced a need for a change in presidential leadership. The Board hired an interim (4th) president, Dr. John H. Anderson (2004) [who oversaw the visit by the Higher Learning Commission of the North Central Association leading to Rock Valley College receiving a 10-year accreditation].

November 9, 2004: 5th president, Dr. Jack J. Becherer continued the vision of teaching, learning, and leading. [A student success model was developed and an enrollment management plan to encourage high school seniors to start college at RVC. Developed partnerships with local businesses and the community offering students training leading to good jobs, providing the region with a stronger workforce.]

Early 2014: President Becherer retired.

April 2014: Mike (Michael D.) Mastroianni (2014-present) named the 6th president of Rock Valley College. [An employee since 1998, a lifelong resident of the Rockford area, and first president to be an RVC alumnus.]

PROGRAMS & ACADEMICS

Fall 1966: classes started on the Main Campus.

August 3, 1967: Starlight Theatre's first production.

1968: the Aviation Maintenance Technology Program opened at an off-site location at the Rockford Airport on Falcon Road.

Spring 1969: first Nursing class of 18 students (who began their journey when the program started in 1967) received their Associate in Science degree at the 1969 commencement ceremony.

In 1971: RVC achieved recognition status with the North Central Accreditation group, which granted the college full tenure accreditation.

1980s:
- expanded its liberal arts programs
- built vocational training programs
- established a strong link with the area's high schools
- established a full range of community education programs:
  - GED and ESL education
  - music, drama, cultural events
  - massage therapy for allied health personnel
  - Whiz Kids' College
  - classroom training in use of "the personal computer"

Late 1990s: addition of Programs and more building renovations:
- Career Development Academy at 4151 Samuelson Road (the former Rockford Vo-Tech High School)
  - Dental Hygiene Program
  - Graphic Arts Technology Program
- Mass Communication Program (Main Campus, ERC)

1999-2012: Federally funded, locally administered ***Upward Bound program*** supported college attainment by low-income, first-generation, district, high-school students.

2016: Federally funded (5-year grant), locally administered ***TRIO program*** began to help students successfully complete college.

Rock Valley College

Admission Checklist First-Time (New) College Student

Getting Started Is Easy

Contact RVC at (815) 921-4250 with any questions regarding these six (6) steps to becoming a College Student.

STEP 1 APPLY FOR ADMISSION

Apply online at: RockValleyCollege.edu/Application, or pick up a paper form at the Information Center on the first floor in the Student Center on the RVC Main Campus.

STEP 2 FUND YOUR EDUCATION

To determine eligibility for Financial Aid complete the free FAFSA form at: fafsa.ed.gov using the RVC code 001747. For more Financial Aid information as it relates to Rock Valley College visit: RockValleyCollege.edu/FinancialAid.

STEP 3 DETERMINE PLACEMENT

Placement for each subject may be determined by a combination of ACT/SAT scores, college transcripts including AP and CLEP, and/or the placement test (ACCUPLACER). For information and review material, visit: RockValleyCollege.edu/PlacementTest. Submit ACT/SAT scores and all transcripts to the Records & Registration office for evaluation.

STEP 4 REGISTER FOR AND ATTEND GETTING STARTED SESSION (GSS)

Register for a session at: RockValleyCollege.edu/GSS. At the GSS you will learn important information, talk with an Academic Advisor, and register for classes. Students must apply and determine placement before attending an GSS. ***Note:*** Photo ID is required.

STEP 5 VISIT ACADEMIC & TRANSFER OR CAREER ADVISING

Schedule an appointment with an Academic Advisor for more detailed academic planning specific to academic goals, degree planning, career exploration, and preparation for registration.

STEP 6 REGISTER & PAY

There are multiple ways to Register – go to: RockValleyCollege.edu/ImportantDates.

Registration and Payment information can be viewed at: RockValleyCollege.edu/Payment.

ADMISSION

Admission Policy

Rock Valley College (RVC) has an "open door" admission policy and admits students who meet the criteria:

1. High school graduates or General Education Development (GED) earners. If you have earned a foreign high school credential, you must submit your High School Diploma to Educational Credential Evaluator (ECE) for evaluation. Please visit the Intercultural Student Services Office or Records and Registration Department located on the second floor of the Student Center for more information.
2. Non-high school graduates age 18 years or older.
3. Transfer students from other colleges. Only credits earned from regionally accredited institutions will be accepted. No grade point average will be calculated on those credits accepted via transfer.
4. High school students age 16 or 17 who have written approval from the high school principal or counselor at the school where they have legal residence.
5. High school students under age 16 may be considered for enrollment in credit classes with the joint approval of the high school principal and RVC's High School Connections Transition Advisor. Students under 16 years old may enroll in non-credit classes; special permission is not required. For more information call (815) 921-4080.

New Students

1. See what RVC has to offer. Call us at (815) 921-4250 to arrange a visit to the Main Campus or check us out on the web at: RockValleyCollege.edu/ExploreRVC.
2. Submit an Enrollment Form to Admissions. Programs with limited enrollment that require additional application steps include Aviation Maintenance Technology, Nursing, Dental Hygiene, Surgical Technology, and Respiratory Care. Refer to the Career and Technical Education Programs section (starting on page 48) for specific program admission details.
3. Apply for Financial Aid. See page 17 for more information.
4. Submit original copies of high school and prior college transcripts. GED graduates should submit original certificates from the Regional Education Office. All documents should be submitted to Records and Registration.
5. Meet Placement Requirements. For more information, see page 14 or visit: RockValleyCollege.edu/PlacementTest.
6. Register for and attend a Getting Started Session (GSS) (see page 14). All new RVC students are highly recommended to attend a session before they register for classes. Sign up for a convenient time at: RockValleyCollege.edu/GSS or call (815) 921-4094.
7. All new students intending to earn a degree in Associate of Arts, Associate in Science, or Associate in Engineering Science, will be required to complete STU 100 (Planning for Success - page 160). It is recommended this requirement be completed during students' first academic semester. Students intending to earn an Associate in Applied Science degree or certificate are not required to complete STU 100, but are highly encouraged to do so.
8. Consider making an appointment to see an Academic Advisor to discuss course planning and academic goals. Call (815) 921-4100 to make an appointment.
9. Register for classes – RockValleyCollege.edu/OnlineServices.
10. Arrange payment by the deadline. Check for payment due dates at: RockValleyCollege.edu/Admission/Registration/DatesToKnow.
11. Rent or purchase books for your classes from the RVC Bookstore on the ground floor of the Student Center (see page 25 for more information or go to: RockValleyCollege.edu/Bookstore).

International Student Admission

Students who are in the United States (U.S.) on an F1 visa are considered international students. To enroll at the college, these students must:

1. Complete an RVC Enrollment Form for admission.
2. Submit proof of English language competency.
   a. Minimum score of 71 internet based, 213 computer based, or 550 paper based on the Test of English as a Foreign Language (TOEFL) or an overall band score of 6.0 on the International English Language Testing System (IELTS)
   b. A statement of completion of the 9th grade level at an ESL Language Center
   c. If you are here in the U.S. as a foreign student with an F-1 or J-1 visa attending a U.S. high school or college, you will need to supply the transcript from that institution
3. Complete the Statement of Financial Support or proof of "live-in-guest" status*. Either form must be notarized.
4. Submit original transcripts of all high school and university work.
5. Complete steps 5-7 of new student process indicated to the left.
6. Complete steps 8-10 of the new student process by meeting directly with the International Student Services, Coordinator.
7. You are required to submit your High School Diploma to Educational Credential Evaluator (ECE) to have your transcript evaluated. This is required to be submitted with your application packet. Please visit the Intercultural Student Services Office or Records and Registration Department located on the second floor of the Student Center for more information.

*Students with "live in guest," approval are eligible for in-district tuition rates and are subject to a non-negotiable $500 International student fee assessed each term.

All documents must be submitted by the published deadlines to the Records and Registration Office. Please note: financial aid is not available to international students, and RVC does not provide on-campus housing. For questions about international student admission, contact (815) 921-4251. This school is authorized under federal law to enroll non-immigrant alien students.

ADMISSION (continued)

Undocumented Student Admission – The Law In The State Of Illinois

An undocumented student refers to students who were born outside the United States, but have lived in the country for a significant portion of their lives, and who reside here with no documentation stating U.S. citizenship or legal residency.

House Bill 60-In-State Tuition for Undocumented Students (Signed into law as Public Act 093-0007) states that undocumented students in Illinois may receive in-state tuition if they meet the following conditions:

- Student resided with his or her parent or guardian while attending a public or private high school in Illinois.
- Student graduated from an Illinois high school or received the equivalent of a high school diploma in Illinois.
- Student attended an Illinois high school for at least three years as of the date of graduation from high school or received the equivalent of a high school diploma in Illinois.
- Student provides the community college with an affidavit* (oath made in writing) stating her/his intent to file an application to become permanent residents as soon as they are eligible.

Note: "The exact language from PA 93-007 supersedes the language included in this catalog."

Undocumented students are not eligible to apply for state and federal financial aid, but may be eligible for many private scholarships.

*Direct questions about international student admission to (815) 921-4251. This school is authorized under federal law to enroll non-immigrant alien students.

High School Connections (HSC), Dual Credit & Dual Enrollment & Articulated Credit .....(815) 921-4080

Located: Student Center - second floor

Website: RockValleyCollege.edu/HSConnections

Rock Valley College offers opportunities for high school students to earn college credit at RVC or at district high schools:

1. **Dual Credit** (general)**:** classes available at RVC or in area high schools.
2. **Advance Now** *(formerly called Career College)***:** dual credit career and technical programs offered in partnership with the Career Education Association of North Central Illinois (CEANCI).
3. **Running Start:** program for qualified high school students, in conjunction with participating high schools, for students to attend RVC full-time their junior and/or senior year.
   - **Running Start 2-year Program** is an **Associate degree completion** option – Students complete a High School Diploma and an Associate degree simultaneously during their junior and senior year.
   - **Running Start 1-year Program** is a **non-degree completion** option – Students enroll in general elective courses completed only during their senior year.
4. **Dual Enrollment** is also available to high school students, to receive college credit, while still in high school.
5. **Articulated Credit** is college credit earned for prior career and technical education courses completed at approved high schools.

Returning Students

1. Review courses already taken and carefully review the ***College Catalog*** and ***Online Schedule*** available at: RockValleyCollege.edu/OnlineServices or RockValleyCollege.edu/Courses.
2. Students who have earned a college degree from an accredited university may request an Getting Started Session (GSS) waiver, call (815) 921-4094.
3. Apply for Financial Aid (see page 17, for more information).
4. Consult with an Academic Advisor when selecting classes and setting academic goals, call (815) 921-4100.
5. If nearing graduation, submit an application for graduation to the Records and Registration Office.
6. Check registration dates at: RockValleyCollege.edu/Admission/Registration/DatesToKnow.
7. Register for classes.
8. Arrange payment by payment deadline. Check payment due dates at: RockValleyCollege.edu/Admission/Registration/DatesToKnow.

Transferring Credit To RVC

Students at Rock Valley College who have credits from another college and plan to earn a degree/certificate at RVC should submit an official transcript, in a sealed envelope from the issuing institution, to the Records and Registration Office, along with a transcript evaluation request form. The transcript evaluation form is available in the Records and Registration Office located on the second floor of the Student Center. Evaluations may take four- to six-weeks after receipt of all materials.

Criteria for evaluation of transferable credits:

- Transfer credit must be earned at a regionally accredited institution.
- Whenever possible, RVC course equivalents for 100 and 200 level credits are awarded. If that is not possible, up to 21 credits of electives may be granted.
- 300 level/junior level credits will transfer on a course by course basis once equivalency is determined.
- 400 level credits require permission from the appropriate dean if a potential equivalency is determined.
- Students may be required to provide course descriptions/syllabi to complete the transfer credit process. Elective credit may be re-evaluated by submitting a syllabus to the Records and Registration Office.
- RVC accepts "D" grades only if the overall GPA is 2.0. (Refer to course descriptions at the back of this catalog for minimum course grade requirements; additional information is provided in the degree requirements for the Associate of Arts and Associate in Science beginning on page 34, and in the degree/certificate requirements in the Career and Technical Education Programs beginning on page 48.)
- Transfer credit does not affect cumulative GPA at RVC.
- All new students intending to earn an Associate of Arts, Associate in Science, or Associate in Engineering Science, will be required to complete STU 100. It is recommended this requirement be completed during your first academic semester. Students intending to earn an Associate in Applied Science degree or certificate are not required to complete STU 100, but are highly encouraged to do so.

ADMISSION (continued)

- RVC does not honor substitution and/or waivers made at another institution, unless approved by the appropriate Dean.
- Only degree/certificate required courses will be transferred in to a student's record. A maximum of 44 transfer credits will be applied. A minimum of 20 RVC credits are required to complete a RVC degree/certificate.
- Foreign transfer credit must be evaluated by Education Credential Evaluators (ECE), please go to: ECE.org.
- Military transfer credit may be awarded upon evaluation of the Joint Services Transcript. The Joint Services Transcript (JST) can be ordered at no cost to the student by going to the website – https://jst.doded.mil.

  Four (4) Physical Education (FWS) credits will automatically be awarded to students who have completed basic training. *[**Note:** only three (3) FWS credits can be used towards degree completion.]* The evaluation of transfer credit may require course descriptions/syllabi to complete the transfer credit process. Course content must be equal to a Rock Valley College course in order to transfer in equivalent credits. Vocational elective credit may be awarded if Rock Valley College does not offer an equivalent course. *[**Note:** Vocational elective credit cannot be used towards degree completion.]*

Admission Requirements For Transfer Degree Programs

Students pursuing a transfer degree (Associate of Arts, Associate in Science, or Associate in Engineering Science, must successfully complete specific high school or college courses as outlined in the Illinois Public Act 86-0954 (see High School Requirements below). A student who does not meet these requirements at the time of enrollment is provisionally admitted as a pre-baccalaureate transfer student. When course deficiencies have been completed, the student is reclassified as a baccalaureate transfer student.

High School Requirements

SUBJECT	YEARS	COURSES
English	4	Written and Oral Communication, Literature
Mathematics	3	Algebra I, Geometry, Algebra II, Trigonometry
Social Studies	3	History, Government
Science	3	Laboratory, Science
Electives	2	Foreign Language, Art, Music, or Vocational

Students with academic deficiencies are considered by RVC to have satisfied these deficiencies upon successful completion of 32 college level credits (courses numbered 100 or above with a minimum 2.0 GPA), which must include ENG 101, SPH 131, one Social Sciences course, one four-credit laboratory Science course, and one Mathematics course (MTH 115 or higher).

Placement Requirements

All new students interested in registering for credit courses are required to meet placement requirements by completing the placement test or by submitting ACT/SAT scores or college transcripts including AP and CLEP. All score reports and transcripts should be submitted to the **Records and Registration Office** for evaluation as soon as possible, (815) 921-4250.

Placement testing assesses a student's abilities in reading, English, and mathematics for the purpose of appropriate course placement. All testing is computer-based, untimed, and scores are immediately available.

More information about the placement test is available at: RockValleyCollege.edu/PlacementTest and in the **Testing Center**, (815) 921-2380.

ACT/SAT scores may be submitted for possible placement test waivers if submitted for evaluation within three (3) years of the original test date.

Post-secondary transcripts/degrees from institutions accredited by recognized regional agencies may be submitted for possible placement test waivers or exemptions based on evaluation.

Testing accommodations for students with disabilities must be approved by the **Office of Disability Support Services (DSS)** at least one (1) week prior to testing in order to arrange appropriate services, (815) 921-2371.

Students in Developmental Reading courses are limited to a specific list of college level courses until they complete the reading series. A complete list of course options for students enrolled in any **Developmental Reading Course** is available at: RockValleyCollege.edu/ReadingCourseOptions.

Getting Started Center (GSC) ..... (815) 921-4094

Located: Student Center - second floor

Website: RockValleyCollege.edu/GSC

1. All new students are highly recommended to attend an **Getting Started Session (GSS)** before they can register for credit courses. The GSS focuses on necessary information about the transition into RVC, academic expectations and responsibilities, advising, and registering for classes. Please register online at: RockValleyCollege.edu/GSS.
2. New students are expected to attend a "New Student Welcome Event" before their first semester. This event will include campus event tours, faculty expectation presentation, student support resource fair, and a chance to meet faculty, staff, and students. Invitations will be sent to new students.

RECORDS & REGISTRATION

In order to register for classes, students must have completed an Enrollment Information Form for Admission, and have met Placement Requirements.

It is highly recommended to all new students that they attend a Getting Started Session (GSS) before they register for classes.

Dates, times, and methods for registration are listed at: RockValleyCollege.edu/Admission/Registration/DatesToKnow. Students who have been limited in their enrollment for academic reasons may appeal to the appropriate dean. The Records and Registration Office is located on the second floor of the Student Center on the Main Campus.

Auditing A Class

Students who wish to audit a course without receiving credit must visit the Records and Registration Office. Auditing students pay full tuition and fees – see Tuition and Fees located on the RVC website: RockValleyCollege.edu/Tuition.

Changes may be made from credit to audit, or vice versa, only during the open registration period. Audits are not allowed for non-credit courses.

Academic Load

Full-time students: Students enrolled in twelve (12) semester hours of course work or more during the **fall, spring, or summer terms** shall be considered full-time. The summer term consists of summer session I and summer session II. The total amount of semester hours taken in summer I and summer II will determine the enrollment classification for the summer term. The recommended maximum academic load during fall or spring semesters is 18 credit hours, during Summer Session I is six (6) credit hours, and Summer Session II is nine (9) credit hours; registration for any additional hours must be approved by the Provost/Chief Academic Officer of Academic Affairs.

- A petition for academic overload is required and can be obtained in the Academic and Transfer Advising Office, on the second floor of the Student Center on the Main Campus.

Part-time students: Students enrolled in one to eleven (1-11) semester hours of course work during the **fall, spring, or summer terms** shall be considered part-time. **Students enrolled in less than six (6) semester hours of course work during any term shall be considered less than half-time.**

Withdrawal From A Class

Rock Valley College reserves the right to administratively withdraw those students who are not actively pursuing the course. Students may also be withdrawn for emergency or disciplinary reasons or if they are enrolled in courses not consistent with placement testing and course prerequisites. Students are responsible for officially withdrawing from course(s) they are no longer attending. These types of withdrawals do not remove any financial obligations incurred for the course(s). The appropriate withdrawal forms are available at the Records and Registration Office. Course withdrawal is only available in person.

Students are encouraged to consult with their Instructor, Academic Advisor, and the Financial Aid Office if they are receiving aid, before withdrawing from a course. Withdrawal after the last day for tuition refunds date will result in a "W" grade on a student's transcript. Deadlines for shorter-term courses may be found in the Records and Registration Office.

Grades of "W" (withdrawal) are not used in calculating the GPA or semester hours attempted but will count toward financial aid eligibility. No withdrawals are accepted after the deadline except in case of extenuating circumstances.

Students with extenuating circumstances (military activation, death of immediate family member, or serious medical condition) must submit an Enrollment Appeal to the Records and Registration Office by calling (815) 921-4250. Enrollment Appeal forms are available in the Records and Registration Office. All appeal forms must be accompanied by supporting documentation or the appeal will be denied. Submitting an appeal does not guarantee approval.

TUITION & FEES

By registering for a course, students agree to pay the required tuition and fees for that course. Tuition is charged per semester hour for credit courses and varies depending upon residency. Tuition rates and fees are subject to change without prior notice.

Residency

Students enrolling at RVC are classified for the purpose of determining tuition and fee rates. Evidence of resident status is provided on each applicant via the Enrollment Information Form. Questions regarding classification should be directed to the Records and Registration Office at (815) 921-4250 or visit our website at: RockValleyCollege.edu/Residency.

In-District Student

To be classified as a District 511 resident, students must have resided within the district for at least 30 days prior to the start of the semester. Students who have moved from an out-of-district or out-of-state residence to an in-district residence for reasons other than attending RVC are exempt from the 30-day requirement upon verification. Residency verification requires one of the following: an official signed lease or rental agreement, a current Illinois driver's license or State ID, a utility bill in the student's name, or a valid Illinois voter's registration card. A student living outside the district/state, but who is employed at least 35 hours per week within the district, must present a letter from the employer prior to each semester testifying to that fact in order to have out-of-district/state fees waived.

Note: Beginning with the 2013-2014 academic year, if a person is utilizing benefits under the federal Post-9/11 Veterans Educational Assistance Act of 2008 or any subsequent variation of that Act, then the board shall deem that person an in-district resident for tuition purposes.

International students may be considered in-district students if they:

1. graduated from a high school in the RVC district and hold a student visa or
2. have a sponsor who lives within the district and signs a form verifying sponsorship and guaranteeing payment of tuition, fees, and miscellaneous college charges.

Contact the Records and Registration Office at (815) 921-4250 with questions or visit our website at: RockValleyCollege.edu/Residency.

Out-Of-District Student

A student who has not established residency within Community College District 511, but is a resident of the state of Illinois, will be classified as out-of-district and charged the appropriate tuition. Out-of-district students who want to attain an approved occupational program degree or certificate offered only at RVC and not their own district community college should refer to "Cooperative Educational Agreements" on page 93.

Out-Of-State Students

Students whose legal residence is outside of Illinois are considered out-of-state students and charged the appropriate tuition. International students who are not citizens of the United States and do not meet the criteria listed above will be considered out-of-state students.

Tuition/Fees

For current tuition rates and specific class fees, refer to the RVC website at: RockValleyCollege.edu/Tuition.

Tuition For Senior Citizens (age 62 & over)

Students 62-64 years of age, prior to the start of the semester, who are residents of Rock Valley College District 511 qualify for a reduced tuition rate of $25 per credit hour for credit courses only.

Students age 65 and over, prior to the start of the semester, who are district residents may attend credit classes tuition free.

All other fees will be assessed at a full rate for students in both age categories. The tuition reduction is not applicable for enrollment in non-credit seminars, classes, or programs.

Tuition Refund

Rock Valley College has determined students may receive a tuition refund upon dropping credit courses based on the following guidelines. In each case if the student drops courses by the specified date, all tuition and fees are refunded. There is no prorated schedule for tuition and fee refunds.

Tuition refund requests should be made to the Records and Registration Office during normal business hours. Refunds will be made according to the following schedule:

COURSE LENGTH	100% REFUND	NO REFUND
16-week course (fall-spring)	Before or during first 7 business days of semester	After the 7th business day of the semester*
4- to 15-week course	On or before 4th business day from start of class	After the 4th business day*
Less than 4-week course	On or before 3rd business day from start of class	After the 3rd business day*

*Saturdays are scheduled course days and are used in the calculation of business days.

The college reserves the right to make the final decision on all refunds.

- It is the student's responsibility to know the refund dates for their courses.
- Non-attendance does not constitute a drop in a course nor qualify students for a refund.
- Failure to drop a course properly may result in a failing grade.
- It is the student's responsibility to drop themselves from a course.
- No refunds will be granted when a student is dismissed or suspended from the college for disciplinary reasons.

Tuition Appeals

No tuition refund will be granted following the tuition refund date. If extenuating circumstances exist (i.e., military activation, death of immediate family member, or serious medical condition) a student may submit a Tuition Appeal with supporting documentation to the Records and Registration Office. A Tuition Appeal does not automatically result in a refund. Tuition Appeals may be submitted within the semester in which the student was enrolled in the course(s). Students who have received Financial Aid funding do not qualify for a tuition appeal refund; however, an enrollment appeal can be filed.

TUITION & FEES (continued)

Payment Information

There are two payment options available:

1. **Pay Online.** Log into your student services online account at: RockValleyCollege.edu/OnlineServices to pay in full or initiate a payment plan. Payment methods include credit (debit) cards (VISA, Mastercard, Discover, and American Express; or ACH (Automated Clearing House-electronic transfer) from a checking account. – OR –
2. **Visit the Payment Center** in the Student Center (second floor). Payment methods include cash, check, money order, or credit (debit) cards (VISA, Mastercard, Discover, and American Express).

All credit (debit) card payments will be charged an additional 2.5% non-refundable transaction fee.

Students who do not make their payment in full, have not been awarded financial aid, or have not signed up for the payment plan will have their classes cancelled for non-payment.

Tax Information: Prior year tax information (IRS tax form 1098T) will be available in Online Services at: RockValleyCollege.edu/OnlineServices by January 31st each year. Under Financial Information, click the "View My 1098T form" link and select the year. Student must have a social security number on file.

Cooperative Agreements & Tuition Chargebacks

Students in Rock Valley College's District 511 who wish to pursue occupational degree and certificate programs not available at RVC may do so by the following:

- **Cooperative agreements**: RVC has cooperative or joint agreements for a number of programs with neighboring community colleges. Through a cooperative agreement, District 511 residents may attend another community college at the other schools' in-district tuition rate. Applications for cooperative agreements are available in the Student Development Office, on the second floor of the Student Center. Refer to Cooperative Educational Agreements, page 93.
- **Chargebacks**: Resident students who want to pursue a certificate or occupational degree program not available through RVC or one of the cooperative agreements may apply for chargeback tuition if they plan to attend another public Illinois community college that offers that program. Applications for chargeback tuition must be obtained from the RVC Student Development Office prior to the first day of classes of the semester/quarter at the attending school. If approved, the student pays in-district rates for the college they are attending and RVC pays the difference between the in-district and out-of-district rate to the other institution. Chargebacks are available only for occupational programs resulting in a degree or certificate and not for individual courses. Repeated courses, prerequisite courses, and developmental courses are not funded by chargebacks.

For further information, guidelines, and applications for cooperative agreements or chargebacks, please call the Career Services Office to schedule an appointment at (815) 921-4091.

Note: A cooperative agreement supersedes a tuition chargeback. See the listing of Cooperative Educational Agreements on page 93.

Out-of-district students who want to enroll in a program at RVC under a cooperative agreement or chargeback should contact their own community college first to make initial application.

FINANCIAL AID

Four basic types of financial aid are available to Rock Valley College students: grants, scholarships, loans, and student employment. For complete information about financial assistance, contact the Financial Aid Office at (815) 921-4150 or go to: RockValleyCollege.edu/Admission/FinancialAid to view the *RVC Financial Aid Handbook*.

Application Procedures

In order to determine eligibility for financial aid at Rock Valley College, students must complete the Free Application for Federal Student Aid (FAFSA). Students must apply for aid yearly, as soon as possible after January 1st for the upcoming fall/spring/summer semesters to ensure full consideration for all grants.

Applications are considered on a date received basis.
For students completing the FAFSA prior to filing taxes, estimated tax data may be used to ensure timely completion.

For "priority consideration" deadlines students should refer to the *RVC Financial Aid Handbook*.
Students are encouraged to file online at: fafsa.ed.gov.
RVC's school code for FAFSA purposes is 001747.
Over 50% of the FAFSA applications received last year contained errors. To avoid lengthy delays in processing, please complete forms accurately. If you estimate your tax information, remember to go back and update your FAFSA when taxes are completed.

ACADEMIC STANDARDS OF PROGRESS FOR RECIPIENTS OF FINANCIAL AID:

In accordance with the U.S. Department of Education and state of Illinois regulations, Rock Valley College established Standards of Academic Progress applicable to all financial aid recipients. These standards apply to all students receiving federal and state funding, including veterans and students receiving student loans or federal/RVC work-study employment.

Please note that all communication pertaining to academic standards will be conducted through the RVC student email account.

For a copy of the entire policy, students can contact the Financial Aid Office for the Financial Aid Handbook or view online at: RockValleyCollege.edu/Admission/FinancialAid.

Completion Rate Requirement: A student must achieve a 67% cumulative completion rate for all course work attempted at Rock Valley College. This applies whether or not the student previously received financial aid. In addition, the student must achieve a 67% cumulative completion rate for all course work attempted within a given semester.

a. Credit hours completed are defined as completion of a course by the end of a given semester in which a student is enrolled and receiving a grade of A, B, C, D, or P.
b. Credit hours attempted include all credit classes in which the student is enrolled after the last day to drop for refund. Course withdrawals after the last day to drop as well as courses with grades of "F" and "I" count as hours attempted for financial aid purposes.
c. Audits, proficiency tests, and non-credit courses are not included in the total number of credit hours attempted.

Grade-Point Average (GPA) Requirement for 2016–2017:
A student must maintain a minimum GPA requirement or probation status in order to continue receiving financial aid.

GPA	0 – 1.49	1.5 – 1.99	2.0 – 4.0
Hours attempted 1-12	*Probation*	*Probation*	Satisfactory
Hours attempted 13-24	**Unsatisfactory**	*Probation*	Satisfactory
Hours attempted 25 +	**Unsatisfactory**	**Unsatisfactory**	Satisfactory

FINANCIAL AID (continued)

Maximum Timeframe Requirement

Student eligibility for financial aid at Rock Valley College is limited to 96 credit hours attempted, regardless of whether or not the student previously received financial aid.

Evaluation Requirement

At Rock Valley College, academic performance must be evaluated before a student can receive financial assistance. Academic performance is evaluated after each fall and spring semester. (The fall evaluation will include any summer courses in the overall completion rate.)

Developmental Course Requirements

While taking developmental courses (i.e., MTH 097) a student must also be enrolled in and attending an eligible 100 level class. Please note that Title IV funding is limited to a maximum of 30 developmental course credits.

Note: Financial Aid will only consider payment for a class repeated two times.

These requirements are subject to change and may be updated.

Scholarships

A variety of scholarships are available to Rock Valley College students through private funding sources and the Rock Valley College Foundation. Information about these opportunities and applications can be obtained through the Financial Aid Office or at: RockValleyCollege.edu/Scholarships.

Veterans Program

Students interested in Veterans Educational benefits, Illinois veterans benefits, and any other related programs should contact the Financial Aid Office.
For more information, call (815) 921-4163 or visit: RockValleyCollege.edu/Admission/FinancialAid/Veterans

Course Eligibility

To be considered for Financial Aid Eligibility, students must register for each course prior to the school's Financial Aid course registration deadline. Please review the Financial Aid course registration deadlines for each term. Any courses not added to a student's schedule by the term specific dates below, will not count towards Financial Aid eligibility

TERM	FINANCIAL AID REGISTRATION DEADLINE
Fall 2016	9/24/2016
Spring 2017	2/11/2017
Summer 2017	6/24/2017

Federal Refund Policy & Repayment Of Financial Aid

Students receiving Title IV funds (Federal Pell Grant, Federal SEOG, and Federal Student Loans) who withdraw and/or fail all classes will be subject to the Federal Return of Title IV Funds Policy. This policy states a student may retain only the amount of aid that they have earned. It is the student's responsibility to return any aid that was not earned and pay any tuition balance resulting from the refund(s).

Further details can be obtained from the Financial Aid Office or at: RockValleyCollege.edu/Admission/FinancialAid.

Helpful Websites Include:

- U.S. Department of Education, (800) 4 FED AID StudentAid.ed.gov
- FinAid.org
- Mapping-Your-Future.org
- Illinois Student Assistance Commission, (ISAC) (800) 899-ISAC CollegeIllinois.org

Students can obtain printed copies of *The Student Guide* from the U.S. Department of Education at: StudentAid.ed.gov.

ACADEMIC POLICIES & PROCEDURES

Transcript Requests

In order to obtain a transcript from Rock Valley College, consent must be given through one of the following options; e-Scrip Safe, Rock Valley College Online Services, fax, mail, or walk-in.

Note: Transcripts listing courses number 100 and above will be sent for each request. If you took courses numbered below 100 (remedial), Community and Continuing Education courses or Adult Education courses, you will need to specifically request inclusion of these records.

Transcripts of work completed at other institutions become a part of a student's record at Rock Valley College and are not released or copied for distribution. Copies must be obtained from the institution where the courses were completed.

All Financial and Academic obligations to Rock Valley College must be satisfied before transcripts will be released.

Visit our website, for detailed information, at: RockValleyCollege.edu/Transcripts or contact the Records and Registration Office at (815) 921-4250 with questions.

Financial Obligation Of The Student

Grade reports, transcripts, degrees/certificates, or other academic record information may be withheld from students who are in default on financial obligations. In such a case, students maintain the right to inspect and review their records. Information will only be released once the student's account has been cleared.

Updating Student Records

It is the responsibility of students to notify the Records and Registration Office of any change or correction to their name, address, telephone number, and/or any other information on their record. It is imperative that this information be kept current and accurate.

Repetition Of Courses

Only the grade of the final repetition will be computed in the student's grade point average (GPA), but all attempts will be listed on the transcript. If a student chooses to audit a course, it will not be considered a repeat or counted in the GPA. This does not apply to grades earned at other colleges. It is important to note that other colleges may count all grades for repeated courses when arriving at a GPA. It is the students' responsibility to acquaint themselves with the policy of the college(s) to which they plan to transfer.

Developmental Reading Course Requirement

Students assigned to RDG 080 (or RDG 096, RDG 099) must receive a grade of "C" or better in order to register for any courses other than basic skills courses. Any student enrolled in RDG 080 (RDG 096, RDG 099) who drops the class will be withdrawn from all classes. RDG 080 (RDG 096, RDG 099) may be repeated only one time.

Students in Developmental Reading courses are limited to a specific list of college level courses until they complete the reading series. A complete list of course options for student enrolled in any Developmental Reading Course is available at: RockValleyCollege.edu/ReadingCourseOptions.

Developmental Math Policies

If a student receives three (3) non-passing grades (D, F, or W) in a developmental math course within a five-year period, that student is not allowed to re-enroll for another math class at Rock Valley College without permission of the Dean of Mathematics.

Students placing into beginning algebra or lower must satisfy the geometry requirement prior to taking a college level class. Students must either take MTH 097 or complete a geometry waiver form or pass a competency test. For more information, please go to: RockValleyCollege.edu/Math.

Credit For Prior Experiences

1. **Proficiency Examinations**
   Proficiency exams are given at Rock Valley College for specific courses in several divisions. Students who wish to receive credit by examination should contact the proper divisional chairperson or director for information about what is available. Students must submit a proficiency examination application for exams that meet their needs. The credit hour nonrefundable fee is 50% of the regular tuition rate for that semester; the receipt for this fee serves as admittance to the testing session. Credit will be recorded after successful completion of the exam, meeting the divisional requirements, and earning six (6) credit hours of 100 level or higher courses at RVC.
2. **College Level Examination Program (CLEP)**
   The College Level Examination Program (CLEP) gives students an opportunity to demonstrate prior learning and to earn credit for that knowledge. Certain fees apply for taking CLEP exams at RVC. Credit awarded is based on CLEP score(s) earned and submission of official CLEP score report(s) to the Records and Registration Office for evaluation. CLEP credit is recorded on a student transcript after six (6) credit hours or more have been earned in 100 level or higher courses at RVC. English (ENG) and Math (MTH) credits will be added to a student transcript prior to earning six (6) credits for students currently enrolled in RVC credit classes.

   To obtain more information about CLEP, visit: CLEP.CollegeBoard.org and RockValleyCollege.edu/CLEP or contact the Testing Center at (815) 921-2380.
3. **Advanced Placement (AP)**
   Credit is granted to students who have participated in the Advanced Placement (AP) program. Credit awarded is based on AP score(s) earned and submission of official AP score report(s) to the Records and Registration Office for evaluation. AP credit is recorded on a student transcript after six credit hours or more have been earned in 100 level or higher courses at RVC. English (ENG) and Math (MTH) credits will be added to a student transcript prior to earning six (6)credits for students currently enrolled in RVC credit classes.

ACADEMIC POLICIES & PROCEDURES (continued)

To obtain more information about AP, see: APCentral.CollegeBoard.com and RockValleyCollege.edu/AP or contact the Testing Center at (815) 921-2380. Students who have participated in the AP program should also consider credit earning opportunities available through the College Level Examination Program (CLEP).

4. **Professional Certificates & Federal Licenses**
College credit is granted for specific professional certificates and/or federal-state licenses or certificates. Students should contact the RVC division in which they will be pursuing a degree or certificate for more information. Credit will be recorded on student transcripts when they earn at least six (6) credit hours at RVC.

5. **Credit For Alternate Learning**
College credit may be granted toward an Associate Degree for the following programs certified by the U.S. Department of Labor, Bureau of Apprenticeship and Training.
   - **Aviation Maintenance Technology:** Federal Aviation Administration Mechanics Certificate (FAA 8060-1).
   - **Early Childhood Education** (formerly Child Care and Development): Maximum three hours for Child Development Associate Credential (CDA).
   - **Chrysler Institute:** Equivalent hours of college credit for successful completion.
   - **Criminal Justice:** College course credit may be granted for successful completion of a state-approved full-time or part-time academy in law enforcement.
   - **Fire Science:** College course credit may be granted for the successful completion of Office of the State Fire Marshal (OSFM) approved course programs (Illinois or Wisconsin), Illinois Fire Chiefs Association, National Fire Academy (NFA), Illinois Fire Service Institute (IFSI), Department of Defense, Emergency Medical Technician (National Registry), and Illinois Department of Public Health courses/certificates (Policy 209).
   - **Office Occupations:** Maximum 12 hours college credit for successful completion of the Certified Professional Secretary Examination (CPS).
   - **Production and Inventory Control:** Maximum of nine (9) hours of college credit for Production and Inventory Management (CPIM) designation.
   - **Respiratory Care:** Respiratory Care program course credit may be granted for Certified Respiratory Therapist (CRT) Examination.

GRADING

Grade points at Rock Valley College are assigned on the following scale:

GRADE LEVEL	SIGNIFICANCE	GRADE-POINT
A	superior	4.0
B	good	3.0
C	average	2.0
D	poor	1.0
F	failure	0
W	withdrew/not completed	NA
T	credit by proficiency	NA
AU	audit*	NA
P	successful completion	NA
I	incomplete**	0

NA = not applicable

*Audit – Students may elect to audit a course (no credit, no grade points, not figured in grade point average). Audit status indicates that the student will attend the classes but will not receive credit. (A student must declare audit status before the first day of classes.)

**Incomplete – Upon prior arrangement and agreement with the course instructor and upon submission of the college's "incomplete grade agreement form" submitted by the instructor, an incomplete (I) indicator will be recorded on the student's record. An "I" will be issued at the discretion of the instructor when course requirements are not fulfilled by the end of the term only when the instructor believes that the reason the student cannot complete the course in a timely fashion is sufficiently serious to warrant the issuance of the "I" indicator.

The incomplete grade agreement is a contract made between the student and the instructor, and states specifically what the student must do to complete the course work. The course work must be completed within the specified time period, not to exceed 12 months from the end of the term in which the course was taken. Upon completion of the course work, the instructor will change the "I" indicator to the appropriate letter grade (A, B, C, D, or F). If the student does not complete the course work within this prescribed time period, a grade of "F" will be entered for the course.

Calculation Of Grade Point Averages

A grade point average (GPA) will be calculated at the conclusion of each semester. The GPA includes all A-B-C-D-F grades complete to date, except those courses in which the pass/fail system is used exclusively, or those courses in which the pass/fail option is selected, or courses numbered less than 100. If a course is repeated, only the grade of the final repetition will be computed in a student's GPA.

The GPA will be calculated based on a four point basis (F=0, D=1, C=2, B=3, and A=4) where the number of grade points for a specific letter grade is multiplied by the number of credit hours earned for that course. For instance, the number of credit hours in which the student earned an A is multiplied by four (4) then added to the number of credit hours in which the student earned a B multiplied by three (3), etc. Finally, the total grade points are divided by the total credit hours for which a student received an A, B, C, D, or F.

GRADING (continued)

President's List & Dean's List

To be eligible for the President's List and Dean's List for a given semester, students must earn at least 12 credit hours of college course work which count toward a certificate or degree.

Students who meet the eligibility requirements and earn at least a 3.25 GPA will be named to the Dean's List (fall and spring semesters only). Students who meet the eligibility requirements and earn at least a 4.0 GPA will be named to the President's List (fall and spring semesters only).

Appeal Of A Capricious Final Grade

The following procedures are available only for review of alleged capricious grading, and not for review of the judgment of an instructor in assessing the quality of a student's work. Capricious grading is limited to one or more of the following:

a. The assignment of a final course grade to a particular student on some basis other than performance in the course.
b. The assignment of a final course grade to a particular student by a substantial departure from the instructor's standards announced during the term which are not uniformly applied to others in the class.

The assessment of the quality of the student's academic performance is solely and properly the professional responsibility of the RVC faculty. It is essential for the standards of the academic programs at RVC and the integrity of the degrees conferred that these professional judgments are not subject to pressures or interference from any source.

Process For Capricious Final Grade Appeal

A student who wishes to appeal a final course grade which he/she feels has been capriciously given should follow the steps below. Grades may be appealed no later than the beginning of the fourth week of the academic term or summer session which directly follows the term in which the grade involved was awarded.

1. A student who wishes to appeal a capricious final grade must first meet with the faculty member to review the criteria applied in assigning that grade.
2. After this initial review, if the problem is not resolved, the student may next appeal in writing to the faculty member's Dean. Once the appeal is read, the Dean will meet with the faculty member to review the criteria applied to the student's performance in assigning the capricious grade. When the faculty member and the Dean have reached a decision, the Dean will communicate that decision in writing to the student.
3. If the problem is still not resolved, the student may appeal in writing to the Vice President of Liberal Arts & Sciences or Career & Technical Education of the college for further review. When the faculty member and the Vice President of Liberal Arts & Sciences or Vice President of Career & Technical Education have reached a decision, the Vice President of Liberal Arts & Sciences or Vice President of Career & Technical Education will communicate the decision in writing to the student.
4. In the event the matter is not resolved, the student may file a petition with theProvost/Chief Academic Officer requesting a hearing by the Grade Review Committee. All decisions of this committee are final.
5. The Grade Review Committee (GRC) Process is as follows:

   A student must submit in writing their request for a hearing to the Provost/Chief Academic Officer. The Provost/Chief Academic Officer, or designee, will convene the GRC within 30 business days from the request.

   The committee will consist of an Dean (from outside the academic department) and two faculty members (one from the same academic discipline and the other from outside the academic discipline). All three voting members of the GRC will be selected by the Provost/Chief Academic Officer or designee. The Vice President of Student Development will facilitate the committee as a non-voting member.

   a. The Student will meet with the committee, individually, to present their appeal and any pertinent documentation.
   b. The faculty member, who assigned the final grade, will then independently meet with the committee and present the criteria they applied in assigning the final grade.
   c. The committee will reach a decision in closed session immediately following the hearing. The Vice President of Student Development will inform the student in writing regarding the decision of the committee, within five (5) business days. The decision of the Grade Review Committee is final.

Academic Forgiveness Criteria

Academic forgiveness is the one-time elimination of up to a maximum of 15 semester hours of "D" or "F" grades in courses numbered 100 or above received at Rock Valley College. Academic forgiveness applies to the calculation of a grade point average (GPA) at RVC and does not result in the deletion of those grades from the transcript. RVC does not guarantee that a receiving transfer institution will honor RVC's Academic Forgiveness Policy.

To be eligible for academic forgiveness:

1. Students may petition for academic forgiveness for a maximum of 15 semester hours of "D" or "F" grades which have been earned in any 365-day period.
2. A period of 12 months must have elapsed between the date of the request for forgiveness and the end of the last semester in which the undesirable grades were earned.
3. Petitions shall include:
   a. A list of those courses to be considered for academic forgiveness.
   b. A statement which contains pertinent information regarding the receipt of the undesirable grades and an indication of serious intent to continue academic studies.
4. To be considered for academic forgiveness, a student must have completed a minimum of 12 credits of subsequent course work at a 2.0 GPA at RVC or another regionally accredited institution.
5. Academic forgiveness does not apply to courses which have been repeated and completed with grades of A, B, C, D, or F.
6. Special circumstances will be reviewed by the Provost/Chief Academic Officer.
7. It is recommended that students meet with an Academic Advisor to review courses that may be eligible for academic forgiveness.

Petitions/forms may be obtained from the Records and Registration Office. Eligible students may apply for consideration for academic forgiveness to the Provost/Chief Academic Officer.

GRADUATION

Graduation Academic Honors

Graduates with a cumulative GPA of 3.25 to 3.74 will graduate with honors. Those with a cumulative GPA of 3.75 to 3.99 will graduate with high honors. Those with a cumulative GPA of 4.00 will graduate with highest honors.

Graduation Requirements

The general procedures for graduation are outlined below. Course requirements and other regulations are explained for each degree and major in the program section of this catalog.

Students should:

- Meet early and often with a counselor or advisor to plan a program of study and to ensure all requirements are met to graduate.
- Know and follow the requirements of the curriculum and the rules governing academic work. Counselors can help each student make wise decisions but the ultimate responsibility for meeting the requirements to graduate rests with each student.
- Have at least a minimum of 20 semester hours of residency.
- Must achieve a 2.0 (C) grade point average in all 100/200 level courses attempted at Rock Valley College.

Students will be certified for graduation only if they satisfy the requirements specified in the official *College Catalog*, according to the following:

A student may elect to follow degree requirements set forth in any subsequent catalog if the student completes a credit course during that catalog's effective dates. A new catalog becomes effective in the fall semester of the first year issued and remains in effect until the end of the summer session of the last year noted. Requirements may not be combined from different catalogs.

Earliest catalog to be used to determine eligibility for graduation:	To graduate on/before August 15 of the following years:
2009-2011	2016
2011-2013	2018
2013-2014	2020
2014-2015	2021

In the case of curriculum changes and the cancellation or withdrawal of courses, every effort will be made to substitute current course work to fulfill certificate or degree requirements. Course substitutions must be approved in writing by the appropriate academic chairperson, or dean. The student has the ultimate responsibility to fulfill the requirements for the certificate or degree, to check the eligibility to take courses and to observe the academic rules governing the program.

The rules given apply only to requirements for certificates and degrees. All students are subject to the academic regulations stated in the most recent college catalog.

- **Transfers:** Students who complete any courses (including final ones) from another college, must submit official transcripts as soon as possible and submit a transcript evaluation request.
- **Timing:** Graduation requirements may be completed during any semester; however, if a program cannot be completed as planned, notify the Records Analyst immediately.
- **Application:** Students must submit an application for graduation approved by an Academic Advisor to the Records and Registration Office, located on the second floor of the Student Center, Main Campus.

Deadlines for application are:
March 1 – Spring
June 1 – Summer
October 1 – Fall

Note: Summer graduates planning to participate in the Commencement Ceremony must meet the spring application deadline.

Commencement Ceremony

Commencement is held once a year at the end of the spring semester. All students who will complete graduation requirements for the following degrees; A.A., A.S., A.E.S., A.A.S., and A.G.S. are eligible for participation in the Spring Commencement Ceremony. Students who expect to complete their degree at the end of the spring semester or summer immediately following, as well as those who completed their requirements the previous summer or fall semesters, are encouraged to participate. Students must submit an application for graduation to participate in the Commencement Ceremony (see above). These students will be sent additional information and notified about picking up their cap and gown during the spring semester. Students completing a certificate program will receive their certificate in the mail following the semester of completion. Certificate recipients do not participate in the Commencement Ceremony.

Second Degree Requirements

A student who has received or qualified for one Associate Degree from Rock Valley College may receive a second degree upon satisfactory completion of all graduation requirements for the second degree, including an additional 15 semester hours of residency. All specific course requirements for the second degree must be satisfied and at least 15 semester hours of credit, not applied to meet minimum requirements for the first degree, must be applicable toward the second degree.

A student who has received a degree from any other college accredited by a regional accrediting agency, such as the Higher Learning Commission (HLC), may receive a second degree from Rock Valley College upon satisfactory completion of all graduation requirements for the second degree, including a minimum of 20 semester hours of residency at Rock Valley College.

Rock Valley College

STUDENT SERVICES

STUDENT SERVICES

Most Student Services are located in the Student Center on the Main Campus, 3301 N. Mulford Road

Admissions/Student Information Center ..... (815) 921-4250

Located: Student Center - first floor

Website: RockValleyCollege.edu/Admissions

The RVC Student Information Center provides information on campus locations, services, and activities, the Information Center provides services including:

- Getting Started
- Enrollment Form
- Student I.D. issued (photo I.D. and current class schedule required)
- Password resets
- Campus lost and found
- Vending refunds (three-day return policy)
- Campus Tours

The Admissions and Information Center also houses the Student Admissions Relations Team (START), a program whereas students serve the college by providing campus tours, serving on student panels, conducting presentations in the community, helping out in the office, and so much more. Student Ambassadors in this program have a unique opportunity to be a representative of the college while gaining leadership and professional skills. Although positions are initially volunteer, all paid positions are hired directly from the START volunteers. Volunteers earn points through their activities that can be redeemed to earn cool stuff. The more you serve, the more you earn. Contact the Information Center at the phone number above for more information.

Academic & Transfer Advising & Open Advising Lab ..... (815) 921-4100

Located: Student Center - second floor

Website: RockValleyCollege.edu/Advising

Academic and Transfer Advisors educate and provide quality services and opportunities that engage students in developing their personal growth and educational goals. You may schedule an appointment or visit the Open Advising Lab. For office hours and services, please visit us at: RockValleyCollege.edu/Advising.

Located: Samuelson Road Center, Student Development Office Room 121 *(4151 Samuelson Road)*, please call **(815) 921-4146** to schedule an appointment with an Academic & Transfer Advisor.

Career Services, Advising, & Placement ..... (815) 921-4091

Located: Student Center - second floor

Website: RockValleyCollege.edu/CareerServices

The Career Services, Advising, and Placement Office serves as a clearinghouse for off-campus part-time/full-time employment listings, internship opportunities, job search skills, career counseling, and general career information. Special attention is given to graduates in all phases of securing employment. Personality and career interest assessments are provided to help students obtain additional information about themselves. With an advisor's help, students are encouraged to use assessment results as indicators and a basis for planning and self-evaluation. Academic advising of all students pursuing Career and Technical Education degrees and certificates also takes place in this office.

The following services are free to any individual who has taken a class at RVC:

- Internet based employment listings for part-time/full-time, professional, technical, skilled, unskilled, seasonal, and temporary employment, as well as internship opportunities
- Academic advising for students intending to complete an Associate in Applied Science degree or certificate
- Individual assistance with resume writing, cover letters, job search techniques, and interviewing
- Resume software and computers to produce professional looking resumes and cover letters
- One-on-one career counseling
- Assessments that assist with the career exploration process
- Internet access to research careers and job listings on our website: RVCjobs.com

Disability Support Services (DSS) ..... (815) 921-2371

Located: Student Center - ground floor

Website: RockValleyCollege.edu/DisabilityServices

Students who have a disability and need accommodations should contact the Disability Support Services (DSS) office as soon as possible to arrange for the appropriate services. During the initial consultation, the nature of the disability will be discussed, as well as what accommodations may be reasonable and appropriate. Reasonable accommodations may include: extended time for tests, course materials in alternate formats, sign language interpreters, assistance with note taking, assistive technology software and products, readers for tests, and Braille materials. Students who do not have documentation of a disability are still encouraged to contact the DSS office and may be provided resources on what documentation is needed and how to obtain it.

TRIO Student Support Services (SSS)

TRIO SSS promotes the retention and graduation of low income, first generation college students, and/or students with disabilities through tutoring, mentoring, skill development, and other services to empower them to graduate.

Website: RockValleyCollege.edu/TRIO

ACHIEVE ..... **(815) 921-4280**
Located: Student Center - ground floor

COMPLETE ..... **(815) 921-4114**
Located: Student Center - second floor

Financial Aid ..... (815) 921-4150

Located: Student Center - second floor

Website: RockValleyCollege.edu/FinancialAid.

There are several types of financial aid available to Rock Valley College students: grants, scholarships, loans, and student employment. See page 17 in the **"Getting Started Steps"** section of this catalog.

Intercultural Student Services ..... (815) 921-4116

Located: Student Center - second floor

Website: RockValleyCollege.edu/ISS

Intercultural Student Services (ISS) Office provides support for a variety of unique student populations. Success coaching, programs and special events are coordinated to support the diverse needs of international, multicultural, first generation, and student-athlete populations.

STUDENT SERVICES (continued)

Personal & Success Counseling ..... (815) 921-4081

Located: Student Center - second floor

Website: RockValleyCollege.edu/PersonalCounseling

The Rock Valley College Personal and Success Counseling's mission is to prepare students for learning and personal success throughout life. We educate and facilitate the growth of the whole person for living, learning, and coping in an unpredictable and diverse world. We work in conjunction with our colleagues across campus toward the promotion of a healthy campus environment and advocate for all students regardless of age, race, sexual orientation, or political beliefs.

Students will be provided assistance for feelings of anxiety, depression, inadequacy, loneliness, or any other personal concern students may be struggling with. The Personal and Success Counselor will provide short-term counseling and will connect students to community resources if long term counseling is the better solution. Topics discussed during a meeting will be held in confidence and community resources for recovery will be provided.

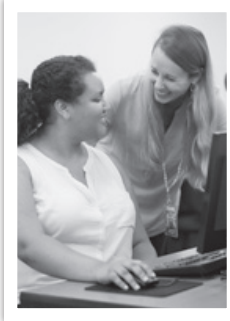
Students who do not meet the Financial Aid required Standards of Academic Performance (SAP) will be required to meet with the Personal and Success Counselor as a requirement for appealing their Financial Aid Status. Students will develop an academic recovery plan and discuss any possible barrier preventing each student from being successful and strategies to overcome them. Students are encouraged to continue visiting with the Personal and Success Counselor after the initial appointment. See Financial Aid (see pages 18 and 24) for more details about requirements and appeals.

In addition, the Personal and Success Counseling Office coordinates the College Early (academic) Alert Program and leads Academic Recovery Program for students on Academic Probation Students looking to implement or improve successful time management, study skills, or stress relief techniques are encouraged to schedule an appointment.

Testing Center ..... (815) 921-2380

Located: Student Center - ground floor

Website: RockValleyCollege.edu/TestingCenter



The Testing Center (Main Campus) is the central location for the professional administration of testing programs and services for students and community residents. Services include placement testing, make-up exams, exams for online/hybrid courses, testing accommodations for students with disabilities, College Level Examination Program (CLEP), and various certification exams. Community residents enrolled in post-secondary, distance/online programs at other institutions may also complete their course exams in the Testing Center.

For more information, visit: RockValleyCollege.edu/Testing or call (815) 921-2380.

BOOKSTORE ..... (815) 921-1680

Located: Student Center - ground floor

Website: RockValleyCollege.edu/Bookstore

The Barnes & Noble College Bookstore, on the Main Campus, offers book rentals, used and new textbooks, digital books, reference and general reading books, school supplies, backpacks, insignia clothing and gifts, and gift cards.

To rent or purchase textbooks and digital textbooks, students can shop in the Bookstore or go to: RockValleyCollege.edu/Bookstore, where they can have books shipped to their homes or held for pick up in the Bookstore.

For academically priced software go to: ThinkEDU.com/BN.

PAYMENT METHODS

include cash, check, credit/debit cards (VISA, Mastercard, Discover, and American Express, no additional fees) as well as Barnes & Noble gift cards and financial aid (check with the Financial Aid Office for eligibility, not available for online purchases).

BOOK RENTALS

are due on the last weekday of finals. Check your receipt or in the Bookstore for the specific date.

BOOK BUYBACK

During fall and spring semesters, the Bookstore buys back textbooks during finals week.
Summer sessions buyback dates vary.

BOOKSTORE HOURS

Hours for fall and spring semesters are:

Monday-Thursday	8:30am - 6:00pm
Friday	8:30am - 3:00pm

The Bookstore is CLOSED during Spring Break and when the college is closed.

Call for "buyback" dates, summer hours, extended hours, and hour changes due to holidays and breaks.

BOOKSTORE LOYALTY PROGRAM

Be the first to hear about special sales and discounts, trends, events, giveaways and more from the RVC Bookstore delivered right to your inbox!

It's free for anyone to join, including current and prospective students, faculty, and staff, community members, parents, and alumni.

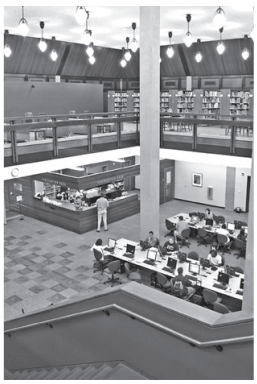
A portion of all sales and rentals from the RVC Bookstore goes back to support RVC.

Join now at: RockValleyCollege.edu/BookstoreLoyalty.

LIBRARY

Estelle M. Black Library ..... (815) 921-4600

***Located:** Educational Resource Center (ERC) - first & second floor*



The Estelle M. Black Library provides print and electronic resources, facilities, and equipment to students, faculty, staff, and community members to serve learning and research needs. Faculty librarians are available to assist users with the research process and to provide instruction in use of the online library catalog and the electronic databases available through the Library.

The Library provides access to a wide array of materials that support the instructional and research needs of its students and faculty. The Library's physical collection of over 100,000 items includes books, music CDs, DVDs, magazines, journals and newspapers. Over 90 research databases are available for locating magazines, newspapers, journals and other materials. Also available are: 39 computers for study and research, a 22-computer open lab, an audio visual viewing room, study rooms, Wi-Fi, color printer, and multifunction copier/scanner. Faculty librarians teach how to conduct effective library research in the Library Instruction Classroom. In addition, the Library provides "Course reserves" and an Interlibrary Loan Service.

For more information, contact the Library:

- Reference Desk ..... (815) 921-4619
- Circulation Desk & call-in Renewals ..... (815) 921-4615
- Interlibrary Loan ..... (815) 921-4607
- Website ..... RockValleyCollege.edu/Library
- Online Catalog ..... RockValleyCollege.edu/LibraryVoyager

TUTORING SERVICES

Tutoring Center ..... (815) 921-2370

Located: Student Center - ground floor

Website: RockValleyCollege.edu/Tutoring

The Tutoring Center supports the academic development and enrichment of RVC students through free peer-to-peer tutoring. Most sessions are in small groups.

Appointments are encouraged, but drop-in times are available for math classes. Students should bring their textbooks and class notes to the session.

Also located: Samuelson Road Center, Student Development Office Room 121 *(4151 Samuelson Road)* – please call **(815) 921-4146** to schedule Tutoring Services.

The Writing Center ..... (815) 921-2370

Located: inside the Tutoring Center

Website: RockValleyCollege.edu/WritingCenter

Free individual consultations are provided for all RVC students. Help is available in developing, composing and revising your ideas and topics, planning and organizing your paper, editing, documenting and citing.

Hours vary. Please call to make an appointment.

The Math Lab ..... (815) 921-3525

Located: Jacobs Center for Science & Math (JCSM) - ground floor, rooms 0210 & 0212

Website: RockValleyCollege.edu/MathLab

The Math Lab is staffed by faculty to serve all RVC math students. Computers are available for math-related use, including online homework. The Math Lab offers free drop-in tutoring, calculator assistance, and access to all RVC math textbooks and math DVDs. Find the current Math Lab hours and schedule online at their website.

CAMPUS TECHNOLOGY

RVC Online Services ..... (815) 921-4250

A wide variety of options and services are available at: RockValleyCollege.edu/OnlineServices.

Students can register for classes, review their class schedule, search for available courses, pay their bill, review grades, review/request transcripts, review their financial aid status, update address information, and more. To access Online Services, students will need a student I.D. number (your "s" I.D. number) and password.

RVC Student Password Policy

All new students will be setup with a username and password that will work for RVC resources including RVC EAGLE, RVC Mail, Online Services and logging on to RVC campus computers. If you forget your password and remember your answers to the security questions you can go to RockValleyCollege.edu/Password. However, if you do not remember the answers to your security questions you will be required to come to the Main Campus and present a photo I.D. to at the Information Desk in the Student Center. Passwords cannot be reset over the phone. It is the responsibility of all users of college IT systems to safeguard their passwords and their use of such systems. It is strongly recommended that students do not share their I.D. and password to adhere to RVC's Computer Use Policy.

RVC-Easy-Web-Internet

Rock Valley College's wireless network provides mobile Internet access for students, faculty, and staff from the wireless access points located throughout the college. Employees and students with network accounts access the Internet using Wi-Fi capable personal devices (tablets, phones, laptops). Log in using your browser and network account. Go to: RockValleyCollege.edu/StudentServices/wifi.cfm for instructions.

Please note: As an RVC student, you can install Microsoft Office 365 ProPlus for **FREE** on your personal computers and mobile devices. Office 365 ProPlus includes full versions of Word, Excel, PowerPoint, Outlook, and OneNote, and can be installed on up to five personally-owned PCs/Macs and up to five mobile devices, including iOS and Android devices. You will need your student I.D. number (your s#) and your network password. Go to: RockValleyCollege.edu/StudentServices/MicrosoftOffice.cfm for instructions.

RVC EAGLE, E-Mail, & Conferencing System ..... (815) 921-4646

Located: Educational Resource Center (ERC) - second floor outside the Library - Room 2402 *(on the CLII side of the building)*

Website: RockValleyCollege.edu/LMS

The Learning Management System (LMS) used in courses at Rock Valley College is called EAGLE. It can be used to submit homework, to discuss course topics, to complete practice tests and for course related communication. Students can use the EAGLE mail interface to request help from their instructors or to discuss topics with other students enrolled in the same course.

All students enrolled in RVC credit classes are given EAGLE Accounts.

RVC Mail (Gmail)

Rock Valley College has a student email system that allows students to interact not only with each other, but also allows campus offices to communicate information to students.

It is important for students to access their RVC Mail account every 24 hours in order to stay informed regarding:

- important dates
- course wait list information
- campus events.

Students may access this email system by logging onto http://Mail.Student.RockValleyCollege.edu.

All students enrolled in RVC credit courses are issued a free RVC Mail account. Technical Support for RVC Mail is located in the EAGLE Support area in ERC-2402.

The format for RVC mail is: first letter of first name+first letter of middle name+last name@Student.RockValleyCollege.edu.

Example –
John M. Smith would be JMSmith@Student.RockValleyCollege.edu.

MyRVC

One-click access to all of Rock Valley College's most used Web resources is available at RockValleyCollege.edu/MyRVC. At "MyRVC" you will find links to:

- Online Services (see page 27)
- Password Policy (see page 27)
- RVC EAGLE (see page 27)
- RVC Mail (see page 27)
- iTunes U
- *College Catalog*
- Online Schedule
- RVC Alerts (see page 28)

You can also access MyRVC from any page on the RVC website (RockValleyCollege.edu) by clicking on the "MyRVC" text in the header of the website.

Distance Learning – Online Classes & Hybrid Courses

Distance Learning: refers to education that takes place with the students and instructor in different locations. At Rock Valley College, the primary options for distance learning are online courses, and hybrid courses.

Online Courses: are offered via the Internet. The course materials, such as syllabi, assignments, lectures, writing prompts, and activities are all posted within EAGLE and are designed and controlled by the instructor. Students work on the course materials independently, reading the texts and lectures and completing assignments. Students also participate in class discussions and conferences online, both in real time (synchronous) and in a bulletin-board format (asynchronous). Students may take tests and submit assignments through EAGLE, but some instructors will require students to come to campus to complete their exams.

Hybrid Courses: combine traditional classroom instruction with online instruction. A hybrid course is an online course that requires students to also attend sessions on campus. The number and type of campus meetings vary from one course to another.

To see a list of available courses, go to Online Course Schedule at: RockValleyCollege.edu/Courses.

Information Technology (IT)

The Information Technology department has responsibility for designing, implementing, and maintaining Rock Valley College's voice, video, and data systems, for both academic and administrative purposes.

CAMPUS TECHNOLOGY
(continued)

Computer Labs

RVC has many different computer labs used for classroom instruction. There are two labs that students can use outside of the formal classroom setting. All labs contain computers with Internet and EAGLE access, and standard software, as well as printers for student use.

There are computers available for student use on the Main Campus:

- **Educational Resource Center (ERC)**
  Inside Library, first floor, in the "Information Commons" Area and Room 1308 (when a class is not in session)
- **Student Center (SC)** – first floor, in Room 1102*
- **Woodward Technology Center (WTC)**, first floor, in Room 145*

Other RVC locations:

- **Samuelson Road Center (SAML)** – Room 161
  For more information and hours, contact the SCCE at (815) 921-4146

*A computer lab assistant or student worker is available, in both the Woodward Technology Center (WTC) and Student Center (SC) labs, to assist students by answering questions and assisting with computer functions.

Computer Use Policy

All Rock Valley College computer hardware and software may be used only in accordance with established rules and procedures. It is the responsibility of all users of the Rock Valley College computer systems to adhere to the "Acceptable Use of RVC Information Technology Systems Procedure" for use of RVC Information Technology resources as outlined. See the complete policy posted at: RockValleyCollege.edu/About/Terms.cfm.

RVC ALERTS

Students are encouraged to sign up for "RVC Alerts" to be notified of **emergencies**, **campus closings**, or other **important announcements**, by clicking on RVC's homepage button:

- Choose to be notified via – phone call
  – text message
  – and/or e-mail
- To register go to: RockValleyCollege.edu/Alert
- Be sure to read the Frequently Asked Questions (FAQs) and then click "Sign-Up" to register.
- Students will log-in using their **student I.D. number** and **network password**.
- You can also choose to receive non-emergency messages regarding financial aid, registration dates, and payment deadlines.

RVC POLICE DEPARTMENT

Non-Emergency.... **(815) 921-4350**
Emergency..... **(815) 654-HELP (4357)**

RVC Police Officers are on Campus – 24 Hours a Day, Seven Days A Week (24/7/365)

Located: Support Services Building (SSB), Room 1100
2nd Location: Samuelson Road Center (SAML), Room 271
Website: RockValleyCollege.edu/RVCPD

RVC's Police Department is dedicated to assuring the safety of all members of the campus community (authorized by 110ILCS 805/3-42.1). All RVC police officers have the same authority as city police officers and county sheriffs, including power to arrest on sight and on warrants. The officers enforce all laws of the state of Illinois, city of Rockford, and regulations of the College.

Services include, but are not limited to, the following:

- Emergency first aid
- Investigation of criminal offenses
- Delivery of emergency messages
- Campus key control
- Parking and traffic control
- Special events security
- Fire and safety inspections
- Vehicle assistance
- "Safe Walk" Program
- Emergency Call Box phone system – (ADA compliant, for emergency and non-emergency assistance) is in place on the Main Campus and at off-campus facilities, located inside and outside of buildings, and can be used 24 hours a day, seven days a week, to contact the RVCPD.

There are 36 call boxes located throughout the RVC Main Campus and they are also located at Bell School Road Center (BELL), Samuelson Road Center (SAML), and the Aviation Career Education Center (ACEC).

All call boxes can be easily identified by the bold **EMERGENCY** designation on the side, and the blue light located on the top of each unit. Both interior and exterior Public Pay Telephones can also be used to dial 9-1-1 free of charge, in the event of an emergency situation.

All students and visitors are required to observe traffic regulations established by the college. Copies of the regulations are available at both the RVC Police Department Offices.

The speed limit on all of our campuses is 20 mph and is enforced by radar.

STUDENT ENGAGEMENT

Rock Valley College is committed to helping its students be successful. To this end, the college provides a variety of activities and services for students. Please review the following to become familiar with how we can help students meet their goals.

STUDENT LIFE ..... (815) 921-4183

Student Life Mission Statement: Student Life exists to connect, engage, and develop Rock Valley College students in a supportive environment through positive leadership, and community building opportunities, while serving as a bridge to their future accomplishments.

Did you know that the more involved college students are in the academic and social aspects of campus life, they benefit more in terms of learning and personal development? Student Life is here to support you enhance your academic experience with various opportunities to help you get and stay engaged outside of the classroom. Our office is located on the first floor of the Student Center and while at Rock Valley College, we encourage you to:

Student Clubs & Organizations ..... (815) 921-4183

One of the easiest ways to get and stay involved is to join an organization on campus. There are over 30 organizations from which to choose. Joining one is as easy as stopping by Student Life, giving us a call or visiting our ***OrgSync®*** website. You can start a brand new club in just a few easy steps. It's just that simple.

For a list of current active student clubs and organizations, please go to: RockValleyCollege.edu/Clubs.

Phi Theta Kappa

Phi Theta Kappa, the official honor society of two-year colleges, serves to recognize and encourage the academic achievement of two-year college students and provide opportunities for individual growth and development through academic, leadership, and service programming.

Rock Valley College's Phi Theta Kappa chapter is called "Omicron Eta" and inducts about 100 students each fall and spring semester. In order to be inducted, students must have completed at least 12 college credits and have earned a minimum of a 3.5 cumulative GPA. Moreover, students must be enrolled at RVC during the semester they are inducted.

In addition to being the honor society, Omicron Eta is an active student organization on campus and is open to all RVC students.

For more information, visit: www.PTK.org or go to https://OrgSync.com/login/Rock-Valley-College and search for Phi Theta Kappa.

Student Volunteer Incentive Program (VIP) ..... (815) 921-4184

The purpose of the Student Life Volunteer Incentive Program (VIP) is to encourage students to get involved through service. Students who participate in volunteer service opportunities on- and off-campus can redeem their hours for various incentives provided by Student Life. For more information, contact the Student Life main office.

Student Lounge on the Main Campus ..... (815) 921-4183

The lounge is located on the first floor of the Student Center (SC), across from the Computer Lab. It includes comfy seating with a big screen TV, your favorite magazines, and more. We also host spur-of-the-moment activities to promote community and free discussion. It's a great place to hang out with other students when in-between classes or grabbing a bite to eat. It is also available for reservation as are the HUB, and the Student Life Organizations Room.

Student Life at the Samuelson Road Center ..... (815) 921-4146

Students at the Samuelson Road Center (SAML) enjoy a wide range of student activities, clubs, and student lounge areas. Some of the annually scheduled events are: Welcome Week, Hispanic Heritage Month, Escape From Finals, Black History Month, and Women's History Month.

OrgSync®

Your link to what is happening at RVC.

Visit our web page at: OrgSync.com/Login/Rock-Valley-College, where you can:

- View events
- Join a student organization
- Meet other students
- Create a profile on OrgSync

Student Government Association (SGA) ..... (815) 921-4184

Purpose Statement:

"To support and advocate for the students at Rock Valley College through service, leadership and civic engagement."

The Student Government Association (SGA) is a body of students elected by their peers to serve as their voice on campus, to address student needs and interests on matters of the college and community. SGA promotes students involvement and seeks to improve their general welfare.

Campus Activities Board (CAB) ..... (815) 921-4184

Purpose Statement:

"To provide educational and fun activities in order to produce an atmosphere of community at Rock Valley College."

The Campus Activities Board (CAB) is comprised of students (officers and members) who are in charge of making sure that the campus comes alive with fun, exciting, diverse, quality entertainment and enrichment all year long. Bands, magicians, comedians, poets, speakers, hypnotists and game shows – if you can name it, chances are it has been here or will be in the near future! Follow the brightly colored posters with the CAB logo to attend and participate in all that the board has planned for the community at Rock Valley College.

ATHLETICS

Department ..... **(815) 921-3800**

Located: Physical Education Center (PEC) - first floor, Room 1024

Website: RVCSports.com

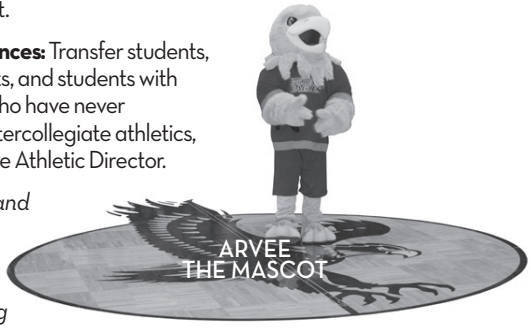
Rock Valley College is a member of the National Junior College Athletic Association (NJCAA) which governs eligibility and competition.

Freshman eligibility: Must be a high school graduate or equivalent; during semester of competition, must be enrolled for at least 12 semester hours of credit leading to a degree or certificate; at end of first full-time semester, must have passed at least 12 semester hours of credit with a 2.0 GPA or better.

To remain eligible for a second season: Must have passed 24 semester hours of credit with at least a 2.0 GPA; must not have completed two seasons of intercollegiate competition in any single sport.

Other circumstances: Transfer students, part-time students, and students with college credits, who have never participated in intercollegiate athletics, should contact the Athletic Director.

Physical exams and medical forms, are required each year, before competing on a sports team.



Nickname: Golden Eagles

Colors: Navy Blue & Gold

Conference: N4C
(North Central Community College Conference)
- College of DuPage
- Joliet Junior College
- Madison College
- Milwaukee Area Technical College
- Triton College
- William Rainey Harper College
- Wright College

Sports Teams:

MEN	WOMEN
• Baseball	• Basketball
• Basketball	• Soccer
• Soccer	• Softball
	• Volleyball

INTERCOLLEGIATE SPORTS

Seven teams of men's and women's intercollegiate sports are offered at RVC. The Golden Eagles compete in NJCAA Division III in men's and women's basketball, men's and women's soccer, women's softball and volleyball, and men's baseball. Many of the teams have enjoyed national prominence in recent years. RVC's rich athletic history includes nearly 150 All-Americans and 13 national championships.

RIGHTS & RESPONSIBILITIES

The RVC campuses are a collegiate society with rules and regulations that respect and protect the rights of both individuals and the campus community. The following policies and procedures establish both the rights and the responsibilities of Rock Valley College students. Students are expected to know and adhere to RVC policies, regulations, rules, and the *Student Code of Conduct* which are available in the *RVC Student Handbook*.

This ***College Catalog*** should not be construed as constituting a contract between the college and any person. The college reserves the right to modify its policies.

A complete copy of each policy or procedure and the *Student Code of Conduct* is available in the *RVC Student Handbook*. The *RVC Student Handbook* is available in the Dean of Students Office and on the RVC website: RockValleyCollege.edu/StudentHandbook.

Academic Honesty

The faculty and administration expect that RVC students are enrolled in courses as serious and honorable scholars. Furthermore, students are expected to do their own original work, except when collaboration on projects is directed by faculty as part of the course or specific assignment. Students are expected to observe the commonly accepted standards of academic honesty at all times. Students who commit any of the forms of academic dishonesty (plagiarism, cheating by copying, dishonest collaboration, or fabrication) as outlined in the *Academic Honesty Standards and Procedures* found in the *RVC Student Handbook* are subject to penalties and sanctions.

Attendance Requirement

Students are expected to attend every class meeting. There is no college policy permitting absences. Each faculty member will decide when and how absences affect grades.

Campus Security Report

This report includes statistics for the previous three years concerning reported crimes that occurred on campus; in certain off-campus buildings or property owned or controlled by Rock Valley College; and on public property within, or immediately adjacent to and accessible from, the campus. The report also includes institutional policies concerning campus security, such as alcohol and drug use, crime prevention, the reporting of crimes, sexual assault, domestic violence, stalking, dating violence, and other matters. The complete report is available at: RockValleyCollege.edu/CampusSecurityReport.

Individuals may also request a paper copy of this report by contacting the RVC Police Department (RVCPD) at (815) 921-4350 or by visiting the department (Room 1100) in the Support Services Building (SSB).

Children On Campus

For the safety of children on campus, children may not accompany students to class, tutoring or testing sessions. Also, children may not be left unattended on the campus grounds, whether in college buildings, extension centers, or at any college event.

Discipline Procedures

The Rock Valley College Dean of Students Office has the right to impose disciplinary sanctions and/or corrective actions for a student found responsible of violating the *RVC Student Code of Conduct*, college regulations, and/or college policies. Students may also be subject to civil or criminal penalties as appropriate.

RIGHTS & RESPONSIBILITIES (continued)

Drug Free Schools & Communities Amendment Act

Rock Valley College complies with the Federal Drug-Free and Communities Act as articulated in the Education Department General Administrative Regulations (EDGAR) Part 86. RVC students receive an annual notice that outlines; standards of conduct, possible legal sanctions and penalties, statements of health risks associated with Alcohol or Drug Abuse, Prevention programs available, and college disciplinary sanctions for violations of standards of conduct. The college seeks to improve the campus atmosphere by eliminating drugs and alcohol on the campus, except where liquor permits have been procured or alcohol is utilized for instructional purposes.

Family Educational Rights & Privacy Act (FERPA)

The following notice and information is given by Rock Valley College, District 511, to advise students of their rights under the Family Educational Rights and Privacy Act of 1974 (The Act). Rock Valley College has implemented policies and procedures implementing the Act.

The Act established the right of students to inspect and review their educational records; provides that personally identifiable information will not, with certain exceptions, be disclosed without the student's written permission; provides guidelines for correction of inaccurate or misleading data through informal or formal hearings; grants students the right to file complaints with the Family Compliance Office concerning failures of the college to comply with the Act; and makes provisions for notice to the students concerning those rights.

Students who wish to review their education records must complete the appropriate form and submit it to the Registrar. Students will be notified in writing of the date and time they may review the records.

The following student data is hereby designated as Directory Information and such information may be disclosed or released by the college for any purpose and at its discretion: student name, dates of attendance, part-time/full-time enrollment status, degrees/certificates earned, awards received, officially recognized activities, weights and heights of members of athletic teams, and student e-mail addresses. To have directory information withheld, the student must give written notice to the Registrar by the tenth day of each semester for which the student is enrolled.

A student may give permission to a parent, guardian, or other individual to review their record. A FERPA waiver form is available in the Records and Registration office.

Contact the Registrar at (815) 921-4267 for FERPA related questions.

Mental Health Act (MHA)

Pursuant to Illinois' Student Optional Disclosure of Private Mental Health Information Act, a student has the right to authorize the College, in writing, to disclose his or her private mental health information to a person of the student's choosing. For additional information, please contact the Records and Registration Office on the second floor of the Student Center. Please be advised that, consistent with the Family Educational Rights and Privacy Act, 20 U.S.C. § 1232g and its regulations at 34 CFR § 99.36, the College may disclose a student's private information to persons who need to know that information in the event of or to avert a health or safety emergency, even if those persons have not been designated by the student on his or her Student Optional Disclosure of Private Mental Health Information Act.

In conjunction with FERPA and RVC policy, students will have the written opportunity to authorize the disclosure of certain private mental health information to a designated person of their choosing by completing and filing a FERPA Form which includes the Mental Health Act Disclosure. This policy allows you to designate a person(s) to whom RVC may disclose certain private mental health information. RVC will contact the person(s) of choice if RVC's Personal Counseling Services determines that you pose a clear danger to yourself or to others and/or protection is needed for you or another person from a clear, imminent risk of serious mental or physical injury, disease or death.

Pregnant & Parenting Student Act

In June 2013, the Office of Civil Rights, within the Department of Education, issued a "Dear Colleague letter" that indicated it is illegal for schools to exclude a pregnant student from participating in any part of an educational program.

Please refer to page 31 of the *2015-2016 RVC Student Handbook* for the entire RVC policy go to: RockValleyCollege.edu/StudentHandbook.

Procedure for Resolution of Student Complaints

Students may encounter problems during their course of study at RVC that may require review by appropriate administrative or academic personnel. The college has established procedures. Questions or guidance regarding these procedures should be directed to the Dean of Students Office, (815) 921-4284. The procedures are also available in the *RVC Student Handbook*.

Preventing Sexual Violence in Higher Education Act

Effective August 1, 2016, the Preventing Sexual Violence in Higher Education Act applies to all Illinois higher education institutions. The new law imposes a number of requirements on higher education institutions related to their policies, procedures, provision of services, and responses to sexual violence on campus between students. While most of the Act·s requirements mirror the federal law requirements under Title IX of the Education Amendments of 1972 and the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, the new Illinois law also places several additional requirements on public universities, public community colleges, and independent not-for-profit or for-profit higher education institutions. Please see the *RVC Student Handbook* for additional information, policies, and procedures.

Registered Sex Offender List

The Rock Valley College Police Department (RVCPD) maintains a registered sex offender list, which identifies all known registered sex offenders who are currently enrolled as students or employees at Rock Valley College. Illinois state law requires all institutions of higher education to make registered sex offender information available to anyone who requests it.

This registered sex offender list is available for viewing at both locations of the RVCPD offices at the Samuelson Road Center (SAML) in Room 271 and on the Main Campus in the Support Services Building (SSB) Room 1100; at the Information Center on the first floor of the Student Center (SC) on the Main Campus; and at the Rock Valley College Downtown (RVCD). Registered sex offenders who fail to register their status as a student or employee at an institution of higher education are in violation of the Sex

RIGHTS & RESPONSIBILITIES (continued)

Registered Sex Offender List (continued)

Offender Registration Act, which is a Class 3 Felony, and may be arrested. In addition to registering with the RVCPD, registered sex offenders must also meet with the Dean of Students or designee prior to the beginning of each semester they enroll.

Section 504 and ADA

In accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973, students have the right to request reasonable accommodations and to receive fair treatment within the educational system of Rock Valley College. The college is committed to resolving disagreements regarding recommended accommodations.

If you feel that you have been unfairly or improperly treated due to a disability, you should first express concern with the appropriate faculty/staff member in an informal manner. Any such complaint must be presented within thirty (30) business days of the occurrence giving rise to the complaint. If the matter is not resolved, the student may contact the Director of Disability Support Services (DSS) at (815) 921-2356 to clarify rights, policies, and procedures for both parties. If the complaint is still not resolved after the informal discussion, the student may appeal in writing within ten (10) days after the informal discussion, to the ADA/504 Compliance Officer, Dean of Students, at (815) 921-4268 for an investigation. A response will be provided to the student within thirty (30) business days.

Student Assembly Policy

Although students are welcome to gather to express and discuss ideas, all such assemblies must be held in accordance with the policy on student assembly. This information is available in the *RVC Student Handbook*.

Student Right-To-Know Information

Student Right to Know refers to federally-mandated public disclosure of specified consumer statistics of institutional effectiveness. The Student Right to Know and Campus Security Act (P.L. 101-542) requires higher education institutions receiving federal financial assistance to provide prospective and current students with the following information to help them make informed decisions about the educational benefits available: Graduation, Transfer, and Retention Rates, Campus Security, and other consumer information.

A complete list is available on the RVC web page: RockValleyCollege.edu/StudentRightToKnow.

TRANSITIONAL OPPORTUNITIES & EDUCATION

Adult Education ..... (815) 921-2000

Located through Summer 2016: **Samuelson Road Center**
4151 Samuelson Road

Moving Fall 2016 to: **Rock Valley College Downtown (RVCD)**
99 E. State Street,second floor
(in the Rockford Register Star building)

Website: RockValleyCollege.edu/Adult Ed

Whether students want to earn a High School Equivalency (HSE), polish basic skills to prepare for a career, or improve English-language skills, there's something for students at Rock Valley College Adult Education. We have programs that will position students for success, regardless of experience level.

- **Adult Education Bridge Programs**
  - Healthcare Field
  - Manufacturing
  - Transportation, Distribution, & Logistics (TDL) to Aviation
- **Citizenship Education classes**
- **English Language Acquisition (ELA)**
  (formerly English as a Second Language/ESL)
  Improve listening, speaking, reading, and writing skills. Classes range from providing basic language skills for beginners to helping advanced students prepare for higher education, further training, or a career.
  - **Intensive English Program (IEP)** is designed to help non-native English speakers prepare for and transition to further education at Rock Valley College. The IEP (can be taken full- or part-time) is for advanced level ESL students.
- **High School Equivalency (HSE)**
  (formerly General Education Development/GED)
  Basic skill instruction in the areas of Reading, Writing, and Math at no cost the student.
- **Integrated Career & Academic Preparation System Program (ICAPS)**
  Program to pursue a GED and a certificate in CNC (Computer Numerical Control) at the same time, while earning credits towards an A.A.S. degree in Manufacturing Engineering Technology.

Office of Employment & Grants / Workforce Development .... (815) 921-2200

Located: **N. Main Street Center (NMST)**
303 N. Main Street
(in the Supply Core Building)

Website: RockValleyCollege.edu/DWP

RVC's Workforce Development is a partner-agency of Illinois' The Workforce Connection, a 17-partner program that provides "employment-based" services to qualified individuals and eligibility criteria is program specific.

Workforce Development provides one contact for employers to find workers AND for job-seekers to receive training, education, and employment services. Services generally assist eligible job-seekers with: career testing and counseling, job readiness skills, job search assistance, on-the-job training opportunities, and financial assistance for vocational training.

- **Dislocated Workers Program (DWP)**
  Services designed to meet the workforce needs of area businesses and get workers back to work as quickly as possible. DWP helps employers through customized training programs and an incentive-based on-the-job training program. Unemployed workers can benefit from: workshops, career planning and counseling, job search training and referrals, and on-the-job training with local employers.
- **Elevate (Youth) Program**
  Elevate is designed to provide educational, career, and support services to youth between the ages of 16-24 who may have a barrier that is preventing them from completing their high school diploma, high school equivalency certificate, or finding employment.
- **Refugee & Immigrant Services**
  Services for adjustment and employment for refugees and immigrants from the northern 10 counties in Illinois. Business Services Coordinators and staff work with employers who have found great success hiring refugees and immigrants through this program.

Rock Valley College

TRANSFER DEGREES

TRANSFER DEGREES

Rock Valley College offers a wide variety of courses specifically designed for transfer. The keys to successful transfer are to start planning immediately and to select coursework carefully. The Associate of Arts (A.A.), the Associate in Science (A.S.), and the Associate in Engineering Science (A.E.S.) degrees are intended for students planning to transfer to a college or university for a baccalaureate degree. However, since requirements can vary from one institution to another, it is recommended that students meet regularly with an academic advisor as well as verify information with the transfer institution.

The Planning for Success and IAI/RVC General Education Core Curriculum information, beginning on this page, provides additional educational planning information. Academic advisors are available to help students develop an individual education plan. Although A.A.S. programs are not primarily designed for transfer to a four-year institution, RVC has established articulation agreements with a number of colleges and universities so that many A.A.S. degrees may transfer. Students should consult an academic advisor or program coordinator regarding the growing transfer possibilities with the Associate in Applied Science (A.A.S.) degrees (see page 48).

Associate of Arts Degree
(A.A. - RVC curriculum #1000)

This degree is for students who plan to major in liberal arts disciplines such as art, criminal justice, education, English, foreign language, geography, history, music, philosophy, political science, psychology, sociology, and speech. It can also be used for transfer business majors such as accounting, business administration, finance, and human resources.

Associate in Science Degree
(A.S. - RVC curriculum #1700)

This degree is for students who plan to major in science-related disciplines such as biology, chemistry, geology, mathematics, medicine, medical technology, pharmacy, occupational and physical therapy, physics, and veterinary medicine.

Associate in Engineering Science
(A.E.S. - RVC curriculum #1775)

This degree is designed to provide students a transition to a four-year baccalaureate engineering degree program. Students who complete the A.E.S. degree can transfer to an engineering program to complete a Bachelor of Science degree depending upon the requirements of the transfer institution. Students may need to complete additional engineering prerequisites at the transfer school.

Selecting the IAI General Education Courses

Students will find a concise listing of General Education Core Curriculum course requirements for the A.A. and A.S. degrees beginning on page 36. Students should also consult a Rock Valley College academic advisor for assistance in making correct course selections. In addition, they should consult: iTransfer.org for accurate updates on these requirements.

PLANNING FOR SUCCESS

Transfer Planning

By carefully constructing an educational plan, students can select Rock Valley College courses for transfer to a variety of four-year colleges and universities. When a student has selected a transfer school, it is important that the student review that institution's specific admission and course requirements. Transfer information can be obtained in the Academic and Transfer Advising Office.

STU 100 – Planning for Success

The STU 100 - Planning for Success course is required for all new students intending to pursue an A.A., A.S., or A.E.S. degree prior to the student earning 30 credits. This one-credit course is transferable to a 4-year college/university and will apply towards graduation at RVC.

Although recommended for students seeking an Associate in Applied Science (A.A.S.) degree or for certificate-seeking students, it is not a requirement.

Specific Requirements for A.A. & A.S. Degrees

Rock Valley College, like most other Illinois community colleges, has additional, specific degree requirements for the Associate of Arts transfer degree, and other requirements for the Associate in Science transfer degree; these are described in detail on pages 37 and 39 of this *College Catalog*.

Majors & Elective Courses

At Rock Valley College, 16-20 elective credits for the Associate of Arts (A.A.) degree and 15-18 credits for the Associate in Science (A.S.) degree may be used by students to explore a particular field of study or major.

Students should schedule an appointment to meet with an advisor to discuss course selection.

Students should also consult: iTransfer.org for up-to-date listings of Rock Valley College courses which will count in the majors at other Illinois colleges and universities.

Diversity & Non-Western Culture Courses

Some transfer institutions require a diversity or Non-Western course in their general education requirements. Students are encouraged to complete any diversity or Non-Western culture courses required by their intended transfer institution as part of their general education core at Rock Valley College.

THE ILLINOIS ARTICULATION INITIATIVE (IAI)

Rock Valley College is a participant in the Illinois Articulation Initiative (IAI), a statewide articulation effort to help Illinois college students transfer credit more easily between more than 100 participating Illinois colleges and universities. One of the main features of the IAI is the General Education Core Curriculum (GECC) which is a list of general education courses that have been articulated statewide and will be accepted for transfer by all participating colleges and universities in Illinois.

Completion of the GECC at any participating institution in Illinois assures transferring students that general education requirements for an Associate of Arts have been satisfied upon transfer to another participating institution. Students who wish to transfer to four-year colleges and universities are advised to complete an Associate Degree.

Students who have 30 semester credits of college level coursework can transfer to an IAI participating institution and have the option of completing the institution's lower-division general education requirements, or complete the IAI GECC. The receiving institution may require transfer students to complete institution-wide and/or mission related graduation requirements beyond the scope of the IAI GECC.

The IAI is a powerful tool for students. General and detailed information about the IAI as well as the most current list of participating schools can be found online at: iTransfer.org.

General Education Core Curriculum (GECC)

The requirements for an Associate Degree (A.A. or A.S.) at Rock Valley College consist of a minimum of 64 credit hours taken from three components:

1. General education core
2. Additional degree requirements
3. Baccalaureate-oriented courses taken in the major/minor, and electives

The IAI GECC of 37-41 credits for an Associate of Arts, or 31-35 credits for an Associate in Science, consists of courses that colleges and universities consider essential for students' success in college and life. The GECC requires study in the following areas:

ASSOCIATE OF ARTS

Communications	9 credits
Mathematics	3-6 credits
Physical and Life Sciences	7-8 credits
Humanities and Fine Arts	9 credits
Social Sciences	9 credits

ASSOCIATE IN SCIENCE

Communications	9 credits
Mathematics	3-6 credits
Physical and Life Sciences	7-8 credits
Humanities and Fine Arts	6 credits
Social Sciences	6 credits
POST-TRANSFER	6 credits

Courses taken at either the Transfer Institution or taken at RVC: one course from Humanities or Fine Arts and one course from Social & Behavioral Sciences)

RVC EDUCATION GUARANTEE PROGRAM

University Transfer Guarantee

Rock Valley College guarantees that courses approved for transfer to another college will be honored either as program requirements or electives. If transfer courses are not accepted after all provisions of the University Transfer Credit Guarantee are followed, the college will allow the student to take additional Rock Valley College courses up to the number of credits not transferred without charge for tuition and fees.

EACH STUDENT IS RESPONSIBLE FOR GRADUATION REQUIREMENTS:

- Complete a minimum of 64 credit hours of 100 level courses or above that also meet the requirements of the General Education Core Curriculum.
- Achieve a 2.0 (C) GPA in all 100/200 level courses attempted at Rock Valley College.
- Meet residency requirements by earning a minimum of 20 semester hours of 100/200 level at Rock Valley College.

Students must submit an application for graduation approved by an Academic Advisor to the Records and Registration Office, on second floor of Student Center, by the published dates of the semester intended to graduate.

March 1 – Last day to apply for **Spring** graduation
June 1 – Last day to apply for **Summer** graduation
October 1 – Last day to apply for **Fall** graduation

PLANNING FOR SUCCESS – EDUCATION PLAN

Requirements for: Associate of Arts Degree (A.A.) = 64 Credit Hours Total

KEY: # = Non-Western Culture (one 3-credit course required)

1. GENERAL EDUCATION CORE CURRICULUM (GECC) (37–41 CREDIT HOURS TOTAL)

COMMUNICATIONS — 9 credits

Students whose first semester of postsecondary education is after Summer 1999 must earn grades of "C" or higher in ENG 101 and 103.

__	@	ENG 101	Composition I	3
__	@	ENG 103	Composition II	3
__		SPH 131	Fundamentals of Communications	3

@ = Must earn minimum of "C"

HUMANITIES / FINE ARTS — 9 credits

Note: To fulfill the IAI GECC Humanities and Fine Arts requirement, students should select a minimum of three courses, selecting at least one from the Humanities and one from the Fine Arts. Interdisciplinary courses encompassing both the Humanities and the Fine Arts may be used for either category.

Humanities:

__		FRN 204	Intermediate French II	3
__		GRM 204	Intermediate German II	3
__		LIT 139	Mythology	3
__		LIT 140	Bible as Literature	3
__		LIT 142	Exploring Literature: Poetry	3
__		LIT 143	Exploring Literature: Drama	3
__		LIT 144	Exploring Literature: Fiction	3
__		LIT 201	American Lit: Colonial to Civil War	3
__		LIT 202	American Lit: Civil War to Present	3
__		LIT 205	British Literature – Beginning to 1800	3
__		LIT 206	British Literature – 1800 to Present	3
__		LIT 210	Woman's Literature: The Early Years to 1800	3
__		LIT 211	Woman's Literature: 1800 to Present	3
__		LIT 241	Shakespeare	3
__		LIT 243	Western Literature to 1800	3
__		LIT 244	Western Literature Since 1800	3
__	#	LIT 251	Non-Western Literature Before 1800	3
__	#	LIT 252	Non-Western Literature Since 1800	3
__	#	LIT 260	Contemporary African Literature	3
__		PHL 150	Introduction to Philosophy	3
__	#	PHL 151	Introduction to Non-Western Philosophy	3
__		PHL 152	Environmental Ethics (approval pending)	3
__		PHL 154	Introduction to Religion	3
__	#	PHL 155	World Religions	3
__		PHL 156	Religion in American Society	3
__		PHL 157	Foundational Religious Texts	3
__		PHL 158	Ancient & Medieval Philosophy (approval pending)	3
__		PHL 159	Modern & Contemporary Philosophy (approval pending)	3
__		PHL 255	Logic	3
__		PHL 256	Contemporary Moral Issues	3
__		PHL 260	Philosophy of Religion	3
__		SPN 204	Intermediate Spanish II	3

Fine Arts:

__		ART 131	Introduction to Visual Arts	3
__	#	ART 141	Introduction to Nonwestern Visual Art	3
__		ART 251	History of Art I	3
__		ART 252	History of Art II	3
__		ART 253	History of Art III	3
__		COM 251	Film History and Appreciation	3
__		COM 252	International History of Film	3
__		HUM 117	Ethnic Traditions in American Theatre	3
__		HUM 210	Cultural Expression Gender in Visual & Performing Arts	3
__		LIT 141	Film as Literature	3
__		MUS 102	Introduction to Music Literature	3
__		MUS 104	Introduction to American Music	3
__	#	MUS 106	Introduction to Non-Western Music	3
__		MUS 251	Music Literature I	3
__		MUS 252	Music Literature II	3
__		MUS 253	Music Literature III	3
__		THE 133	Introduction to Theatre	3

Interdisciplinary Humanities & Fine Arts:

Interdisciplinary humanities courses listed below may be used for either Humanities or Fine Arts credit.

__		ENG 200	Language, Power & Public Life	3
__		HUM 111	Introduction to Humanities I	3
__		HUM 112	Introduction to Humanities II	3
__		HUM 114	Introduction to Humanities III	3
__	#	HUM 120	Hispanic Caribbean Cultural Expression	3
__		HUM 121	U.S. Latino/Latina Cultural Expression	3
__		HUM 122	Spanish Cultural Expression	3
__	#	HUM 125	Introduction to Non-Western Humanities	3
__		HUM 211	War & West. Humanities Thru Middle Ages	3
__		HUM 212	War & West. Humanities: Renaissance to Present	3

PHYSICAL & LIFE SCIENCES — 7-8 credits

Note: Select at least one Life Science and one Physical Science course. At least one of the two courses must have a lab.

Life Sciences:

__		BIO 100	Introductory to Human Biology	3
__		BIO 103	Introductory Life Sciences	3
__		BIO 104	Introductory Life Sciences Lab	1
__		BIO 106	Introductory Environmental Life Science	3
__		BIO 107	Introductory Environmental Life Science Lab	1
__		BIO 113	Plants and Society	4
__		BIO 140	Introduction to Evolution	3
__		BIO 150	Microbes & Society	3
__		BIO 152	Microbes & Society Lab (approval pending)	1
__		BIO 162	Human Heredity	3
__		BIO 201	Fundamentals of Biology I	4
__		BIO 202	Fundamentals of Biology II	4

Physical Sciences:

__		AST 202	Introduction to Astronomy	4
__		ATS 105	Introduction to Atmospheric Science	4
__		CHM 105	Chemistry and Society	4
__		CHM 110	General, Organic & BioChemistry I	4
__		CHM 120	General Chemistry I	4
__		GEL 101	Introduction to Geology	4
__		GEL 103	Fossils and Earth History	4
__		GEL 107	Geology of the Solar System	3
__		GEL 206	Environmental Geology	3
__		PGE 100	Physical Geography	3
__		PGE 102	Physical Geography w/ Lab	4
__		PGE 240	Global Climate Change	3
__		PHY 201	Mechanics and Heat	5
__		PHY 215	Mechanics, Wave Motion & Thermodynamics	5

MATHEMATICS 3-6 credits

Note: For students seeking state certification as elementary teachers, both MTH 216 and 217 must be satisfactorily completed to fulfill the three-hour mathematics requirement.

__		MTH 115	General Education Math	3
__		MTH 135	Calculus I	5
__		MTH 160	Topics from Finite Math	3
__		MTH 211	Calculus for Business/Social Sciences	4
__		MTH 217	Math for Elementary Teachers II	3
__		MTH 220	Elements of Statistics	3
__		MTH 235	Calculus II	4
__		MTH 236	Calculus III	4

SOCIAL & BEHAVIORAL SCIENCES 9 credits

Note: Select courses from at least two areas.

Anthropology:

__		ANP 102	Introduction to Physical Anthropology	3
__	#	ANP 103	Introduction to Cultural Anthropology	3

Economics:

__		ECO 101	Introduction to Economics	3
__		ECO 110	Principles of Macroeconomics	3
__		ECO 111	Principles of Microeconomics	3

Geography:

__	#	GEO 130	World Regional Geography	3

History:

__		HST 140	History of Western Civilization I	3
__		HST 141	History of Western Civilization II	3
__		HST 142	History of the U.S. to 1865	3
__		HST 143	History of the U.S. since 1865	3
__	#	HST 151	African History Survey to 1600	3
__	#	HST 152	African History Survey since 1600	3
__	#	HST 162	History of Latin American I	3
__	#	HST 163	History of Latin American II	3
__	#	HST 172	History of the Middle East I	3
__	#	HST 173	History of the Middle East II	3
__	#	HST 182	History of Eastern Civilization to 1500	3
__	#	HST 183	History of Eastern Civilization since 1500	3
__	#	HST 192	History of the World until 1750	3
__	#	HST 193	History of the World since 1750	3

Political Science:

__		PSC 160	American National Government	3
__		PSC 161	State and Local Government	3
__		PSC 269	International Relations	3

Psychology:

__		PSY 170	General Psychology	3
__		PSY 225	Child Development	3
__		PSY 270	Life-Span Developmental Psychology	3
__		PSY 275	Social Psychology	3

Sociology:

__		SOC 190	Introduction to Sociology	3
__		SOC 290	Social Problems	3
__	#	SOC 295	Racial and Ethnic Relations	3
__		SOC 298	Sociology of Sex and Gender	3
__		SOC 299	Marriage and the Family	3

2. ADDITIONAL DEGREE REQUIREMENTS TO BE COMPLETED

For the Associate of Arts Degree, students need to complete the following:

- **Humanities and Fine Arts – 3 credits**
  (additional for a total of 12)
  Select from: Any course listed as an IAI approved humanities or fine arts course and/or ART 246; FRN, GRM, SPN; PHL; LIT; HUM 115, or 250.
- **Social and Behavioral Sciences – 3 credits**
  (additional for a total of 12)
  Select from: Any course listed as an IAI approved social and behavioral science course and/or ANP, ECO, EDU 224, GEO, HST, PSC, PSY, or SOC.
- **Non-Western Culture – one 3-credit course**
  Select from: Any course listed as an IAI approved Non-Western Culture. Course is indicated by (#); or SPH 202.
- **STU 100 – Planning for Success – one credit**
- **Electives – 16-20 additional credits****

** ***Note:*** ELECTIVES FOR A.A. DEGREE COMPLETION
The electives taken at RVC may serve as prerequisites for majors at baccalaureate institutions. Students should meet with an academic advisor to verify course selection based on major and transfer institution. Students should also check with the college or university they plan to transfer to and confirm course selection. Students are responsible for knowing the specific requirements of the institution they are considering for transfer and should consult with those institutions directly.

***Please see further information about the IAI at:* iTransfer.org.**

Disclaimer: This information is only a tool that will be updated periodically. Please check with Academic and Transfer Advising Office for updates.

PLANNING FOR SUCCESS – EDUCATION PLAN

Requirements for: Associate in Science Degree (A.S.) = 64 Credit Hours Total

KEY: # = Non-Western Culture (one 3-credit course required)

1. GENERAL EDUCATION CORE CURRICULUM (GECC) (31–35 CREDIT HOURS TOTAL)

Note: **The A.S. Degree does not fulfill the IAI GECC requirements. However, the GECC can still be completed at RVC or completed at the Transfer Institution (for more info see page 39).**

COMMUNICATIONS — 9 credits

Students whose first semester of postsecondary education is after Summer 1999 must earn grades of "C" or higher in ENG 101 and 103.

__	@	ENG 101	Composition I	3
__	@	ENG 103	Composition II	3
__		SPH 131	Fundamentals of Communications	3

@ = Must earn minimum of "C"

HUMANITIES / FINE ARTS — 6 credits

Note: To fulfill the IAI GECC Humanities and Fine Arts requirement, students should select a minimum of three courses, selecting at least one from the Humanities and one from the Fine Arts. Interdisciplinary courses encompassing both the Humanities and the Fine Arts may be used for either category.

Humanities:

__		FRN 204	Intermediate French II	3
__		GRM 204	Intermediate German II	3
__		LIT 139	Mythology	3
__		LIT 140	Bible as Literature	3
__		LIT 142	Exploring Literature: Poetry	3
__		LIT 143	Exploring Literature: Drama	3
__		LIT 144	Exploring Literature: Fiction	3
__		LIT 201	American Lit: Colonial to Civil War	3
__		LIT 202	American Lit: Civil War to Present	3
__		LIT 205	British Literature – Beginning to 1800	3
__		LIT 206	British Literature – 1800 to Present	3
__		LIT 210	Woman's Literature: The Early Years to 1800	3
__		LIT 211	Woman's Literature: 1800 to Present	3
__		LIT 241	Shakespeare	3
__		LIT 243	Western Literature to 1800	3
__		LIT 244	Western Literature Since 1800	3
__	#	LIT 251	Non-Western Literature Before 1800	3
__	#	LIT 252	Non-Western Literature Since 1800	3
__	#	LIT 260	Contemporary African Literature	3
__		PHL 150	Introduction to Philosophy	3
__	#	PHL 151	Introduction to Non-Western Philosophy	3
__		PHL 152	Environmental Ethics (approval pending)	3
__		PHL 154	Introduction to Religion	3
__	#	PHL 155	World Religions	3
__		PHL 156	Religion in American Society	3
__		PHL 157	Foundational Religious Texts	3
__		PHL 158	Ancient & Medieval Philosophy (approval pending)	3
__		PHL 159	Modern & Contemporary Philosophy (approval pending)	3
__		PHL 255	Logic	3
__		PHL 256	Contemporary Moral Issues	3
__		PHL 260	Philosophy of Religion	3
__		SPN 204	Intermediate Spanish II	3

Fine Arts:

__		ART 131	Introduction to Visual Arts	3
__	#	ART 141	Introduction to Nonwestern Visual Art	3
__		ART 251	History of Art I	3
__		ART 252	History of Art II	3
__		ART 253	History of Art III	3
__		COM 251	Film History and Appreciation	3
__		COM 252	International History of Film	3
__		HUM 117	Ethnic Traditions in American Theatre	3
__		HUM 210	Cultural Expression Gender in Visual & Performing Arts	3
__		LIT 141	Film as Literature	3
__		MUS 102	Introduction to Music Literature	3
__		MUS 104	Introduction to American Music	3
__	#	MUS 106	Introduction to Non-Western Music	3
__		MUS 251	Music Literature I	3
__		MUS 252	Music Literature II	3
__		MUS 253	Music Literature III	3
__		THE 133	Introduction to Theatre	3

Interdisciplinary Humanities & Fine Arts:

Interdisciplinary humanities courses listed below may be used for either Humanities or Fine Arts credit.

__		ENG 200	Language, Power & Public Life	3
__		HUM 111	Introduction to Humanities I	3
__		HUM 112	Introduction to Humanities II	3
__		HUM 114	Introduction to Humanities III	3
__	#	HUM 120	Hispanic Caribbean Cultural Expression	3
__		HUM 121	U.S. Latino/Latina Cultural Expression	3
__		HUM 122	Spanish Cultural Expression	3
__	#	HUM 125	Introduction to Non-Western Humanities	3
__		HUM 211	War & West. Humanities Thru Middle Ages	3
__		HUM 212	War & West. Humanities: Renaissance to Present	3

PHYSICAL & LIFE SCIENCES — 7-8 credits

Note: Select at least one Life Science and one Physical Science course. At least one of the two courses must have a lab.

Life Sciences:

__		BIO 100	Introductory to Human Biology	3
__		BIO 103	Introductory Life Sciences	3
__		BIO 104	Introductory Life Sciences Lab	1
__		BIO 106	Introductory Environmental Life Science	3
__		BIO 107	Introductory Environmental Life Science Lab	1
__		BIO 113	Plants and Society	4
__		BIO 140	Introduction to Evolution	3
__		BIO 150	Microbes & Society	3
__		BIO 152	Microbes & Society Lab (approval pending)	1
__		BIO 162	Human Heredity	3
__		BIO 201	Fundamentals of Biology I	4
__		BIO 202	Fundamentals of Biology II	4

Physical Sciences:

__		AST 202	Introduction to Astronomy	4
__		ATS 105	Introduction to Atmospheric Science	4
__		CHM 105	Chemistry and Society	4
__		CHM 110	General, Organic & BioChemistry I	4
__		CHM 120	General Chemistry I	4
__		GEL 101	Introduction to Geology	4
__		GEL 103	Fossils and Earth History	4
__		GEL 107	Geology of the Solar System	3
__		GEL 206	Environmental Geology	3
__		PGE 100	Physical Geography	3
__		PGE 102	Physical Geography w/ Lab	4
__		PGE 240	Global Climate Change	3
__		PHY 201	Mechanics and Heat	5
__		PHY 215	Mechanics, Wave Motion & Thermodynamics	5

MATHEMATICS 3-6 credits

Note: For students seeking state certification as elementary teachers, both MTH 216 and 217 must be satisfactorily completed to fulfill the three-hour mathematics requirement.

__		MTH 115	General Education Math	3
__		MTH 135	Calculus I	5
__		MTH 160	Topics from Finite Math	3
__		MTH 211	Calculus for Business/Social Sciences	4
__		MTH 217	Math for Elementary Teachers II	3
__		MTH 220	Elements of Statistics	3
__		MTH 235	Calculus II	4
__		MTH 236	Calculus III	4

SOCIAL & BEHAVIORAL SCIENCES 6 credits

Note: Select courses from at least two areas.

Anthropology:

__		ANP 102	Introduction to Physical Anthropology	3
__	#	ANP 103	Introduction to Cultural Anthropology	3

Economics:

__		ECO 101	Introduction to Economics	3
__		ECO 110	Principles of Macroeconomics	3
__		ECO 111	Principles of Microeconomics	3

Geography:

__	#	GEO 130	World Regional Geography	3

History:

__		HST 140	History of Western Civilization I	3
__		HST 141	History of Western Civilization II	3
__		HST 142	History of the U.S. to 1865	3
__		HST 143	History of the U.S. since 1865	3
__	#	HST 151	African History Survey to 1600	3
__	#	HST 152	African History Survey since 1600	3
__	#	HST 162	History of Latin American I	3
__	#	HST 163	History of Latin American II	3
__	#	HST 172	History of the Middle East I	3
__	#	HST 173	History of the Middle East II	3
__	#	HST 182	History of Eastern Civilization to 1500	3
__	#	HST 183	History of Eastern Civilization since 1500	3
__	#	HST 192	History of the World until 1750	3
__	#	HST 193	History of the World since 1750	3

Political Science:

__		PSC 160	American National Government	3
__		PSC 161	State and Local Government	3
__		PSC 269	International Relations	3

Psychology:

__		PSY 170	General Psychology	3
__		PSY 225	Child Development	3
__		PSY 270	Life-Span Developmental Psychology	3
__		PSY 275	Social Psychology	3

Sociology:

__		SOC 190	Introduction to Sociology	3
__		SOC 290	Social Problems	3
__	#	SOC 295	Racial and Ethnic Relations	3
__		SOC 298	Sociology of Sex and Gender	3
__		SOC 299	Marriage and the Family	3

2. ADDITIONAL DEGREE REQUIREMENTS TO BE COMPLETED

For the Associate in Science Degree, students need to complete the following:

- **Mathematics** (additional credits for a total of 8)
  Select from: Any course listed as an IAI approved mathematics course and/or any other math course (MTH) numbered 100 or above.
  Note: If needed, it is strongly recommended that students complete all calculus courses at the same institution.
- **Physical and Life Sciences** (additional credits for a total of 16)
  Two courses with labs from the same discipline
  (Example: Two BIO'S or two CHM's)

  Select from: Any course listed as an IAI GECC approved Life or Physical Science course and/or any course from AST, ATS, BIO, CHM, GEL, PGE, or PHY.
- **Non-Western Culture – one 3-credit course**
  Select from: Any course listed as an IAI approved Non-Western Culture. Course is indicated by (#); or SPH 202.
- **STU 100 - Planning for Success – one credit**
- **Electives – 15-18 additional credits****

** ***Note:*** ELECTIVES FOR A.S. DEGREE COMPLETION
The electives taken at RVC may serve as prerequisites for majors at baccalaureate institutions. Students should meet with an academic advisor to verify course selection based on major and transfer institution. Students should also check with the college or university they plan to transfer to and confirm course selection. Students are responsible for knowing the specific requirements of the institution they are considering for transfer and should consult with those institutions directly.

Post-Transfer GECC Completion:

These courses can be taken at either the Transfer Institution or taken at RVC. Select courses from the IAI GECC list on previous pages.

- **Social and Behavioral Science –** one 3-credit course
- **Humanities /Fine Arts –** one 3-credit course

***Please see further information about the IAI at:* iTransfer.org.**

Disclaimer: This information is only a tool that will be updated periodically. Please check with Academic and Transfer Advising Office for updates.

TRANSFER DEGREES

Associate in Engineering Science (A.E.S.) Degree #1775

Degree Conferred: Associate in Engineering Science (A.E.S.)
65 credits

Program Contact: Business/CIS/Engineering and Technology
(815) 921-3101

Program Overview:
The Associate in Engineering Science Degree is designed to provide graduates with transfer credits to a baccalaureate engineering degree program. The degree supports A.E.S. graduates' ability to complete a Bachelor of Science (B.S.) Degree depending in large part on the requirements of the four-year institution. The student should identify his / her engineering major and target institution as soon as possible. Students who are unsure of a major in engineering may wish to pursue an Associate in Science (A.S.) Degree. Although students completing an A.S. Degree can complete all of the general education requirements at Rock Valley College, they may be required by the program prerequisites at the transfer school to take three years to complete the baccalaureate engineering program.

I. College Requirements

a. Semester Hours: A minimum of 65 credit hours completed as specified in the following sections.
b. Grade-Point: A minimum cumulative grade-point average of 2.0 ("C" average) in all course work taken.
c. A "C" or better in each engineering specialty course and elective.

II. General Education Requirements

The completion of the AES degree does not fulfill all general requirements of the Illinois Articulation Initiative (IAI) General Education Core Curriculum. Consequently, students must complete the remainder of their general education requirements at the institution to which they transfer. Given the rigor associated with most four-year engineering programs, this program helps to provide students with more balanced semester course loads during their junior and senior years.

A.E.S. General Education Core Requirements ..... 35 credits

Note: Completion of the A.E.S. degree does not complete the IAI GECC. Students will also need to complete general education credits at the transfer institution.

A.E.S. Communications ..... 9 credits
ENG 101 Composition I 3
ENG 103 Composition II 3
SPH 131 Fundamentals of Communication 3

A.E.S. Mathematics ..... 13 credits
MTH 135 Calculus with Analytic Geometry I 5
MTH 235 Calculus with Analytic Geometry II 4
MTH 236 Calculus with Analytic Geometry III 4

A.E.S. Physical Science ..... 4 credits
CHM 120 General Chemistry I 4

A.E.S. Social and Behavioral Sciences/ Humanities and Fine Arts ..... 9 credits
Students are encouraged to complete a two-course sequence in the same discipline in either the Social and Behavioral Sciences or the Humanities and Fine Arts categories.
(Please see page 36 for complete list of IAI-approved General Education Core Curriculum courses for these areas.)
IMPORTANT: students are required to select one course that emphasizes Non-Western culture (# after course listing = Non-Western course).

Students planning on majoring in Industrial Engineering are required to take:
ECO 111 Principles of Economics: Micro 3
(***Note:*** ECO 111 – Principles of Economics: Micro, 3, is permissible, but not required, for all other engineering majors.)

III. A.E.S. Engineering Major Courses ..... 20 Credits

A.E.S. Engineering and Technology ..... 2 credits
EGR 101 Introduction to Engineering 2

A.E.S. Additional Math Requirement ..... 3 credits
MTH 240 Differential Equations 3

A.E.S. Calculus-based Physics ..... 10 credits
PHY 215 Mechanics, Wave Motion, & Thermodynamic 5
PHY 225 Electricity, Magnetism, Light, & Modern Physics 5

A.E.S. Computer Programming ..... 4 credits
MTH 164 The Computer in Mathematics C/C++, or,
CIS 276 Computer Programming in C/C++ 4
(***Note:*** Students in Electrical Engineering are advised to take MTH 164, or combination of MTH 120 / MTH 125, if MTH 132 was not completed. If CIS 276 is taken by an EE student, an additional 11 credits of Engineering Electives is required.)

A.E.S. Required Elective ..... 1 credit
STU 100 Planning for Success 1

IV. A.E.S. Engineering Electives ..... 10 Credits

The selection of the appropriate elective engineering courses to meet the elective requirement will depend on the student's desired major/engineering discipline and the specific requirements of the intended transfer institution. Electives should be determined in consultation with an engineering advisor.

The abbreviations given in the table below indicate the primary engineering disciplines from which the students may select a major field; the elective courses listed below appropriate to that discipline are marked with this abbreviation.

- Civil Engineering (CE)
- Electrical/Computer Engineering (EE)
- Industrial Engineering (IE)
- Chemical Engineering (ChE)
- Mechanical Engineering (ME)

Course	Course Title	Credits	Engineering Discipline
EGR 135	*Engineering Graphics*	*4*	*CE ME EE*
*EGR 206**	*Statics*	*3*	*CE IE ME EE*
*EGR 207**	*Dynamics*	*3*	*CE IE ME*
*EGR 221**	*Elementary Mechanics of Deformable Bodies*	*3*	*CE IE ME*
*EGR 231**	*Engineering Circuit Analysis*	*4*	*EE CE IE ME*
EGR 250	*Digital Electronics*	*4*	*EE*
ECO 111	*Principles of Economics: Micro*	*3*	*IE*
*CIS 276**	*Computer Programming in C/C++*	*4*	*EE*
CHM 130	*General Chemistry II*	*4*	*ChE*
CHM 220	*Organic Chemistry I*	*5*	*ChE*
CHM 230	*Organic Chemistry II*	*5*	*ChE*

**These courses have specific course prerequisites that are not shown above and may require additional credit hours to be taken by the student.*

RVC-NIU Engineering Partnership

Beginning in the fall semester 2016, Rock Valley College will be the home to one of the most unique and exciting academic partnerships in our region.

Students who earn their Associate Degree in Engineering Science (A.E.S.) will be able to take all of the classes needed to earn a Bachelor Degree in Electrical Engineering, Mechanical Engineering, or Applied Manufacturing Technology from Northern Illinois University (NIU), without having to leave the RVC Main Campus.

The partnership between RVC's Engineering and Technology program and the College of Engineering and Engineering Technology also includes commitments from Rockford-area aerospace companies to provide internship opportunities for students.

Engineering is one of the fastest growing industries in this area.
Learn more about the opportunities available at:
RockValleyCollege.edu/Engineering.

To learn more about the RVC-NIU Engineering Partnership, please visit:
RockValleyCollege.edu/RVCNIU.

NIU President Dr. Doug Baker and RVC President Mike Mastroianni sign the engineering partnership agreement.

TRANSFER DEGREES

Associate in Science (A.S.) Degree with Emphasis in Agriculture

Degree Conferred: Associate in Science

Contact: Sciences Division, (815) 921-3471

Program Overview:

The Associate in Science (A.S.) Degree with an emphasis in Agriculture will prepare students for transfer to a university to complete a bachelor's degree in preparation for a career in the fields of agriculture and consumer science.

Students interested in agricultural production, marketing and merchandising, research and development, or public policy can find a career in agriculture.

Through a partnership with the University of Illinois' College of Agricultural, Consumer and Environmental Sciences (ACES), Rock Valley College is a partner in a collaborative initiative known as ACES ACCESS.

Students will take four introductory agricultural science courses (one per semester for four semesters) taught by University of Illinois professors.

The four courses will be offered through the University of Illinois-Champaign by an online delivery method. ***Travel to the University of Illinois, Urbana-Champaign for one- or two-lab sessions at the agricultural lab facility will be required within the semester.*** All other course requirements will be completed at Rock Valley College.

Students completing an A.S. degree with an emphasis in Agriculture will be prepared to transfer to one of four participating universities:

1) University of Illinois-Champaign
2) Southern Illinois University
3) Illinois State University
4) Western Illinois University

Students who transfer to one of these universities will have opportunities to specialize in a wide variety of agricultural fields, including, but not limited to:

- Agricultural and Biological Engineering
- Agricultural and Consumer Economics
- Agricultural and Environmental Communications
- Education
- Animal Science
- Crop Science
- Food Science and Human Nutrition
- Horticulture
- Human Development and Family Studies
- Natural Resources and Environmental Sciences
- Technical Systems Management

Students completing the Associate in Science (A.S.) with Emphasis in Agriculture will take the General Education courses at RVC needed to complete an Associate in Science along with four required electives:

1) AGR 106
2) AGR 110
3) AGR 115
4) AGR 118

Students should meet with an Academic Advisor to review the degree and courses needed.

TRANSFERRING

About Transferring

Students who earn the Associate of Arts or Associate in Science (A.A. or A.S.) degrees at Rock Valley College before transferring may be granted junior standing by many baccalaureate institutions considering the general education requirements are completed. Transfer students should check early with their transfer institutions and advisors to ensure they are meeting ALL requirements specific to each individual institution. A few colleges/universities may do a course-by-course examination of work from Rock Valley College, and could expect students to complete some general education courses at their institution. Students should work together with Academic and Transfer Advisors, Career Services, or Career & Technical Education Faculty along with transfer institutions to build a transfer degree program appropriate for them. As a general rule, earning an A.A. or A.S. degree is an excellent strategy for transfer.

Students who decide to transfer to another college in Illinois before they earn an A.A. or A.S. degree will find that IAI-approved courses will be accepted by most baccalaureate institutions. Transferring without completing the general education core curriculum may mean that students must complete the general education requirements at the four-year institution.

Transferring from RVC

The Academic and Transfer Advising Office at Rock Valley College offers information about transferring to baccalaureate institutions. For successful transfer, the following guidelines are recommended for all students who plan to transfer:

1. **Investigate** possible career paths at the Career Services, Advising, and Placement Office at (815) 921-4091, through labor market information and career interest surveys.
2. **Plan** RVC course selection with general education and introductory transfer courses in mind. The Academic and Transfer Advising Office, (815) 921-4100, can assist in course selection. Transfer guides for many baccalaureate institutions are available. Because transfer requirements change frequently, verify all transfer information directly with the college/university.
3. **Review** examples of transfer program course guides available in various department offices and/or on the college website.
4. **Visit** the Academic and Transfer Advising Office, (815) 921-4100, to see available resources: internet access, college-career search programs, applications, college catalogs, and more.
5. **Research** possible colleges/universities' academic programs, entrance requirements, costs, deadlines for applications and transcript submission, and housing requirements.
6. **Study.** Since admittance to a college/university is based in part on the Rock Valley College grade point average (GPA) – it pays to study. Many students are competing for limited seats in popular areas of study; your GPA can either limit or broaden career options.
7. **Visit** campuses as time and resources permit. Virtual tours are available on the Internet. Many college representatives also come to campus for "College Night" and throughout the year. The "college visit schedule" is available at the Academic and Transfer Advising Office web page.
8. **Apply** for graduation at Records and Registration at the beginning of the last semester at Rock Valley College. Even students who are not planning to attend the graduation ceremony need to apply for graduation.
9. When applying, **send** the RVC transcript to the transfer institution via Online Services at: RockValleyCollege.edu/OnlineServices. Request transcript to be sent after each semester a grade is posted at RVC.

Reverse Transfer Credit Articulation Agreements

The Reverse Transfer Credit Articulation Agreement enables Rock Valley College students who have transferred to a four-year institution before earning their Associate Degree, the ability to use credits earned at the four-year school to transfer back to RVC. These credits can be used to satisfy the degree requirements for an Associate Degree at RVC. This process is similar to how credit is transferred from a community college to a four-year school, just in reverse. Transfer students must have completed at least 30 credits at RVC.

For more information, contact the RVC Academic and Transfer Advising Office at (815) 921-4100. Current agreements are with:

- **Eastern Illinois University**
- **Northern Illinois University**

BACCALAUREATE COMPLETION/TRANSFER AGREEMENTS

In addition to the Illinois Articulation Initiative (IAI) with the state universities for students who complete transfer degrees at Rock Valley College, the college also has written agreements with several baccalaureate completion institutions. It is the transfer students' responsibility to ensure that all course requirements are met by communicating with the chosen four-year institution prior to transferring. Students may also contact these institutions for more information about how they can finish their degree without leaving the Rock Valley College district.

Call the Academic and Transfer Advising Office at (815) 921-4100 for more information.

American InterContinental University
Career Education Corporation
Website: AIUniv.edu/Admissions/Documents-And-Resources
Attn: Educational Alliance Center
231 N. Martingale Road, Schaumburg, IL 60173
(855) 377-1888
- Bachelor of Accounting
- Bachelor of Business Administration
- Bachelor of Information Technology
- Bachelor of Science in Criminal Justice

Bellevue University
Website: Bellevue.edu/Community-College/index.aspx
Community College Partnerships
1000 Galvin Road South, Bellevue, NE 68005
(800) 756-7920

Embry-Riddle Aeronautical University-Worldwide
Website: ERAU.edu/Rockford
E-mail: Chicago.rockford.center@erau.edu
- Aviation Management

Franklin University/Online Campus
Website: Alliance.Franklin.edu
Columbus, OH
(888) 341-6237
- Business Administration
- Computer Science
- Health Services Administration
- Management Information System
- Public Safety Management
- Technical Administration

George Williams College-Aurora University
Website: Aurora.edu/GWC
350 Constance Boulevard, Williams Bay, WI 53191
(262) 245-8587
- Business
- Recreation
- Special Education

Governors State University
Website: GovSt.edu/
Website: GovSt.edu/cas
One University Parkway, Office of Admission,
University Park, IL 60484
(708) 534-4490
E-mail: gapply@GovSt.edu
BA in Communication with a Filmmaking
and Multimedia Concentration

Indiana Wesleyan University
Baccalaureate degree completion programs
for the Adult Learner
Website: IndWes.edu/BachelorCompletion
1900 W. 50th Street, Marion, IN 46953-9393
(866)-IWU-4-YOU or (866) 498-4968
- Nursing – RN – BSN Completion Program
- Addictions Counseling
- Criminal Justice
- Business Administration
- Management
- Marketing
- Accounting
- Business Information Systems
- General Studies
- Biblical Studies

Judson College
Website: Judson.edu
Elgin, IL
(815) 399-3500 • (888) 537-6246
- Management and Leadership
- Human Services
- Human Resources Management
- Criminal Justice Management
- Management Technology Systems

Kaplan University
(866) 583-4417
Website: cc.Kaplan.edu
- Information Technology–Network Administration Business

National American University
Website: National.edu
Distance Learning
(800) 548-0602
- Applied Management
- Applied Information Technology

National-Louis University
Website: NL.edu/t4/transfer/
Chicago, IL
(800) 443-5522
- Bachelor of Arts
- Bachelor of Science
- Applied Behavioral Science
- Early Childhood Education
- Elementary Education
- Healthcare Leadership
- Management
- Management Information Systems

BACCALAUREATE COMPLETION/TRANSFER AGREEMENTS (continued)

Northern Illinois University – DeKalb, IL
Website: NIU.edu/OffCampusAcademics
(866) 885-1239 or call (800) 892-3050 for more information.
- Aviation Management Technology
- Business Administration
- Computer Science
- Homeland Security Certificates
- Industrial Management Technology
- Liberal Arts and Sciences
- Nursing – R.N.-B.S.N. Completion Program
- Health and Human Sciences
- Undergraduate and Graduate Certificate in Geographic Information Systems
- Bachelor of General Studies (B.G.S.)
  - A.A.S. – Respiratory Care
  - A.A.S. – Fire Science

In addition, offered at NIU-Rockford on East State Street:
- Business Administration Bachelor Degree

Offered by NIU on the RVC Main Campus:
- B.S. – Mechanical Engineering
- B.S. – Electrical Engineering
- B.S. – Applied Manufacturing Technology

Olivet Nazarene University
School of Graduate and Continuing Studies
Website: Olivet.edu
One University Avenue, Bourbonnais, Illinois 60914-2345
(800) 648-1463 • (815) 939-5011
- Nursing – R.N.-B.S.N. Completion Program
- PURSUE ONU – RVC Associate Degree to ONU Bachelor's Degree Program Completion
- Criminal Justice
- Business Administration
- Applied Science in Management

Palmer College of Chiropractic
Website: Palmer.edu
Davenport, Iowa
(800) 722-3648
- Bachelor of Science in General Science

Rasmussen College
Website: Rasmussen.edu
6000 E. State Street, Fourth Floor, Rockford, Illinois 61108
(815) 316-4800
Online or On-Campus
- Business Administration

Rockford University
Website: Rockford.edu
Rockford, Illinois
(815) 226-4000
- Bachelor of Arts
- Bachelor of Fine Arts
- Bachelor of Science in Nursing
- Bachelor of Science

Saint Anthony College of Nursing
Website: SACN.edu
Rockford, Illinois
(815) 395-5091
- Bachelor of Science in Nursing
- RN – BSN Completion Program

Saint Leo University/Online Campus
Website: Online.SaintLeo.edu
Tampa, Florida
(888) 622-7344
- Accounting
- Business Administration
- Computer Information Systems

Southern Illinois University at Carbondale
Website: Aviation.SIUC.edu/
Department of Aviation Management and Flight
College of Applied Sciences and Arts
Mailcode 6623, Carbondale, Illinois 62901-6623
(618) 453-8898 or (618) 453-1144
- Aviation Management

The University of Phoenix/Online Campus
Website: Phoenix.edu
(602) 387-7000
- Business/Accounting
- Business/Administration
- Business/e-Business
- Business/Management
- Marketing
- Information Technology
- Management

University of Illinois-Chicago
(Rockford Global Campus)
Website: Global.uillinois.edu
510 Devonshire, Suite H, Champaign, Illinois 61820
(866) 896-3939
Email: gcadvisor@uillinois.edu
- Bachelors of Business Administration (B.B.A.)
- Bachelors of Nursing (B.S.N.)
- RN – BSN Completion Program

University of Illinois – Springfield
Website: UIS.edu
Dual Admission
2+2 Agreement Opportunities
- Bachelor of Science – Criminal Justice, Computer Science, Political Science, & Social Work (2+2 agreement)
- Online Bachelor Degrees in:
  - English
  - History
  - Economics
  - Liberal Studies
  - Business Administration

University of Illinois at Urbana-Champaign
Website: Illinois.edu
Dual Admission
2 + 2 Agreement

Upper Iowa University - UIU Rockford
Website: UIU.edu/Transfer/RockValley
1161 Tebala Boulevard, Rockford, Illinois 61108
(800) 553-4150 • (815) 332-1414
E-mail: rockford@uiu.edu
- Course-to-course Articulation Agreement

Western Illinois University
Website: WIU.edu/SES
Email: NP-BOT@WIU.edu
(309) 298-1929
Board of Trustees/Bachelor of Arts Degree (BOT/BA)
(Online degree program completion with no time limits)

GENERAL STUDIES DEGREE

Requirements for the Associate in General Studies Degree (A.G.S. - RVC curriculum #0100)

The Associate in General Studies degree is designed primarily for students who have chosen to pursue a broad general program rather than a specific occupational-oriented or baccalaureate-oriented program. THIS DEGREE IS NOT DESIGNED TO TRANSFER to a four-year institution and general education requirements do not meet IAI General Education Core Curriculum guidelines.

It is an individualized program, permitting flexibility in the selection of courses. Students will qualify for the Associate in General Studies degree when they have satisfied the following requirements:

1. **Enter into a contract with an academic advisor establishing an individualized program.** This contract will include the following points agreed upon by the student and their counselor and approved by the Vice President of Academic Affairs.

   a. A general education component which must include:
   - ENG 101 and SPH 131.
   - A mathematics course numbered 100 or above.
   - A social sciences course numbered 100or above.
   - A humanities course numbered 100 or above (as defined in the A.A. degree humanities requirement).
   - A science course numbered 100 or above.
   - Career requirement (1-3 semester credits). Students must complete one course from the following electives:
     - STU 101 (Career Planning),
     - BUS 101 (Introduction to Business),
     - BUS 105 (Consumer Economics and Personal Finance),
     - CIS 102 (Introduction to Computers and Information Systems).

   b. A minimum of 15 semester credits in one of the following areas of concentration:
   - Business – all courses in the Business Division.
   - Composition and Literature – all courses numbered 100 to 299.
   - Computers and Information Systems – all courses.
   - Humanities – all courses in Art, Music, Literature, Philosophy, THE 133, HUM 111, HUM 112, HUM 114, and SPH 202.
   - Life/Physical Sciences – all courses in the Life and Physical Sciences departments.
   - Mathematics – all Mathematics courses numbered 100 to 299.
   - Modern Languages – all Modern Language courses.
   - Physical Education – all 200 level courses (FWS).
   - Health and Service Careers – all courses in the Allied Health or the Human Services Division.
   - Social Sciences – all courses in the Social Sciences and Humanities Division.
   - Technology – all courses in the Technology Division.
   - Technical – all courses in the Technical Programs Division.

   c. Electives – to be discussed with an Academic Advisor

2. Complete all provisions of the contract. Once the agreement has been defined, it cannot be changed without the approval of an Academic Advisor and the Vice President of Liberal Arts and Sciences.

3. Earn a minimum of 12 semester credits at Rock Valley College in fall and spring semesters or summer sessions following the term in which the student entered into the contract.

4. Earn a minimum of 64 semester credits in courses numbered 100 through 299 (excluding certificate-level courses so indicated under "Course Descriptions") with a grade point average of at least 2.0.

5. Successful completion of 20 semester credits at Rock Valley College. Students may earn a maximum of three semester credits in physical education activity classes (FWS 100-199) toward the Associate in General Studies Degree.

CAREER & TECHNICAL EDUCATION PROGRAMS

Rock Valley College

Career & Technical Education Programs –
Associate in Applied Science (A.A.S.) Degrees

Rock Valley College has developed career and technical programs in response to employment needs of the college's district. All of the career programs have been developed in cooperation with program advisory committees. Upon successful completion of a career program, students will receive an Associate in Applied Science (A.A.S.) degree or a Certificate. Although these programs are not primarily designed for transfer to a four-year institution, RVC has established articulation agreements with a number of colleges and universities and many Associate of Applied Science degrees may transfer. If transferring to a four-year college or university is your goal, please consult with your Academic Advisor, the Dean, or Academic Chair of the career program.

Requirements for the Associate in Applied Science (A.A.S.) Degree

The Associate in Applied Science Degree is awarded to students who successfully complete a career and technical education curriculum. Attainment of this degree is evidence that the student possesses the competence for entry-level employment in their field of study. An Associate in Applied Science Degree usually requires two years for full-time students. Part-time students may complete the degree over a longer period of time.
All technical curricula leading to the Associate in Applied Science Degree have both specific program and general education core course requirements. The general education requirements will include a minimum of 15 semester credit hours.

Requirements for all A.A.S. Degrees include:

1. Completion of one of the career education curriculums listed in this catalog (beginning on page 47), including a minimum of 64 semester credits. Courses numbered from 100 through 299 can be used toward the 64 semester credits.
2. A maximum of three (3) semester credits may be earned in Fitness, Wellness, and Sport physical education activity classes (numbered 100 through 199).
3. A minimum grade point average (GPA) of 2.0 ("C" average on a 4.0 scale).
4. Since the Summer of 1999, students must receive grades of "C" or better in ENG 101 and ENG 103 (if ENG 103 is required for the program). A grade of "C" or better is also required if a student completes MGT 170 (formerly ENG 105).
5. Successful completion of at least 20 semester credits at RVC.

Perkins Programs of Study & Career Clusters

Rock Valley College, in partnership with the Illinois State Board of Education and the Illinois Community College Board, has adopted the national Career Cluster Framework. This initiative complements other state level efforts to enhance workforce and career development. Career Clusters are groups of occupations and industries that have in common a set of foundational knowledge and skills. There are 16 nationally recognized clusters and within are multiple Career Pathways. For more information about the Career Clusters initiative visit: CareerTech.org.

Requirements for Certificates

Career education certificate programs are developed and offered in areas where job-entry training and educational requirements usually can be met in less than two years. These short-term programs are excellent options for the student who is interested in quickly gaining skills for employment.

A number of certificates are offered either as part of career education degree programs or stand-alone certificates.

Requirements for all Certificates include:

1. For certificates with less than 30 credit hours, a minimum grade of "C" is required in each course required in the certificate.
2. For certificates of 30 or greater credit hours, a minimum cumulative grade point average of 2.0 ("C" on a 4.0 scale) is required.
3. Substitution of appropriate, approved courses may be made in certificates to a maximum of one-fourth of the credit hours in the respective certificate.

Upon successful completion of the requirements for a specific certificate, an application for the certificate must be completed at the Records and Registration Office.

Career Education Guarantee

Rock Valley College guarantees that career education graduates will perform competently in positions for which their degrees or certificates are intended. An employer who perceives that a Rock Valley College graduate does not possess appropriate entry-level skills encompassed in the degree or certificate curriculum, and can specify such deficiencies, may request that the student be permitted to retake a specific course of courses up to nine (9) credit hours without additional tuition and fee charges.

In the fall semester of 2017, look for a new Health Science Center on the Rock Valley College Main Campus!

RVC students in Nursing and Allied Health Programs, including Dental Hygiene, Phlebotomy Technician, Respiratory Care, and Surgical Technology, will have a brand-new facility to call home.

For more information, see page 94 of this Catalog.

Associate in Applied Science (A.A.S.) Degree Table

Career & Technical Education	Associate in Applied Science Degree (A.A.S.) Credit Hours	Certificate Credit Hours	Program Requirements on Page
ACCOUNTING A.A.S. DEGREE	65		51
• Accounting / Income Tax Fundamentals Certificate		8	51
• Professional Bookkeeper Certificate		26	51
AUTOMOTIVE SERVICE CAREERS: **AUTOMOTIVE SERVICE TECHNOLOGY A.A.S. DEGREE – Option A** **AUTOMOTIVE SERVICE TECHNOLOGY A.A.S. DEGREE – Option B**	 66 66		 52 52
• Automotive Technician Certificate		51	53
• Automotive Heating & Air Conditioning Certificate		15	53
• Automotive Suspension & Brakes Certificate		11	53
• Automotive Electrical Certificate		11	53
• Automotive Engine Certificate		9	53
• Automotive Engine Performance Certificate		19	53
• Automotive Transmission Certificate		15	53
AVIATION MAINTENANCE TECHNOLOGY A.A.S. DEGREE	82		54
• Aviation Maintenance Certificate		76	55
• Airframe Technician Certificate		47	55
• Powerplant Technician Certificate		46	55
BUILDING CONSTRUCTION CAREERS –			56
BUILDING CONSTRUCTION MANAGEMENT A.A.S. DEGREE	65		56
• Construction Management Certificate		23	56
• Building Construction Certificate		36	56
• Construction Administrative Assistant Certificate		15	56
• Construction Methods & Materials Certificate		15	56
• Residential Construction Certificate		12	56
• Basic Construction Certificate		15	56
SUSTAINABLE BUILDING SCIENCE A.A.S. DEGREE	64		57
• Sustainable Construction Certificate		15	57
BUSINESS ADMINISTRATION A.A.S. DEGREE	65		58
• Business Fundamentals Certificate		29	59
• Management Certificate		29	59
• Marketing Certificate		21	59
• Entrepreneurship Certificate		29	59
COMPUTER CAREERS:			
COMPUTERS & INFORMATION SYSTEMS (CIS) A.A.S. DEGREE	64		60
• C/C++ Programming Certificate		15	60
• Visual Basic Programming Certificate		15	60
CISCO NETWORKING A.A.S. DEGREE	64		61
• Cisco Networking Certificate		19	61
• Cisco Advanced Networking Certificate		12	61
• Microsoft Server Administration Certificate		9	61
DATA ASSURANCE & IT SECURITY A.A.S. DEGREE	64		62
• Voice Over IP Associate Certificate		27	62
• Cisco CCNA Security Certificate		10	62
• Cisco CCNP Security Certificate		22	62
CRIMINAL JUSTICE A.A.S. DEGREE	66		63
DENTAL HYGIENE A.A.S. DEGREE	81		64
EARLY CHILDHOOD EDUCATION A.A.S. DEGREE	65		65
• Early Childhood Educator Certificate		35	65
• Early Childhood Educator Assistant Certificate		11	65
ELECTRONIC ENGINEERING TECHNOLOGY (EET) A.A.S. DEGREE	66		66
• Electronics Certificate		50	67
• Basic Electronics Certificate		27	67

CAREER & TECHNICAL EDUCATION PROGRAMS

Associate in Applied Science (A.A.S.) Degree Table (continued)

Career & Technical Education	Associate in Applied Science Degree (A.A.S.) Credit Hours	Certificate Credit Hours	Program Requirements on Page
FIRE SCIENCE A.A.S. DEGREE	64		68
• Basic Operations Firefighter Certificate		21	68
• Fire Officer I Certificate		15	68
• Fire Officer II Certificate		12	68
• Foundation of the Fire Service Certificate		12	68
• Emergency Medical Technician Certificate		9	68
FITNESS, WELLNESS, & SPORT (FWS) A.A.S. DEGREE	64		69
• Coaching Education Certificate		24	70
• Personal Training Certificate		24	70
FLUID POWER TECHNOLOGY CERTIFICATE		3	71
GRAPHIC ARTS CAREERS:			72
Graphic Arts Technology (GAT) A.A.S. Degree	67		72
• Prepress Certificate		23	72
Graphic Design A.A.S. Degree	67		73
Cross Media Production A.A.S. Degree	67		73
MANUFACTURING ENGINEERING TECHNOLOGY (MET) A.A.S. DEGREE	65		74
• CAD Certificate		15	74
• CNC Certificate		21	74
• Basic Quality Certificate		18	74
• Certified Manufacturing Associate Certificate		12	74
MASS COMMUNICATION PROGRAM:			75
Media Production Specialist Certificate		31	75
NURSING PROGRAMS:			76
• Associate Degree Nursing (ADN) A.A.S. DEGREE	70		76
• LPN Bridge Program (Articulation to A.A.S. in Nursing)			77
• Nursing Aide Certificate		7	79
OFFICE PROFESSIONAL A.A.S. DEGREE	65		80
• Administrative Assistant Certificate		34	81
• Medical Coding Certificate		15	81
• MOS/ Word Certificate		8	81
• MOS/ Excel Certificate		11	81
• MOS/ PowerPoint Certificate		11	81
• MOS/Access Certificate		11	81
Phlebotomy Technician Certificate		11	82
RESPIRATORY CARE PROGRAM A.A.S. DEGREE	71		83
Surgical Technology Certificate		40	85
SUSTAINABLE ENERGY SYSTEMS (SES) A.A.S. DEGREE	66		87
• Sustainable Energy Systems Certificate		50	88
• Basic Sustainable Energy Systems Certificate		28	88
WEB PROGRAMMING & DESIGN A.A.S. DEGREE	64		89
• Web Development Certificate		16	89
• Web Design Certificate		14	89
WELDING PROGRAMS			90
• Welding Certificate		24	90
• Assembly Line Welder Certificate		12	90
APPRENTICESHIP PROGRAMS:			
ELECTRICIAN APPRENTICESHIP A.A.S. DEGREE	64		91
• Electrician Apprenticeship Certificate		42	91
Sheet Metal Apprenticeship (Five Years)		40	91
Tool and Die/Precision Machinist Certificate (Four Years)		30	92

Accounting

Accounting (ATG) #2000

Degree Conferred: Associate in Applied Science - 65 credits

Program Contact: Division of Business / Computers & Information Systems, (815) 921-3101 RockValleyCollege.edu/Accounting

Program Overview:
Graduates of this program will play a central role in the financial life of a business or client. They will learn to assemble, identify, record, and interpret financial information in private and public accounting. Students who decide to go on to pursue a bachelor's degree will find other opportunities available in a wide range of fields.

Work & Employment:
Graduates of this program are prepared to assume positions such as accounting technician, accounting assistant, accounting clerk, or bookkeeper.

Transfer Opportunities:
Graduates of this Accounting degree have limited transfer options. Students are advised to contact the institution to which they plan to transfer to ensure course transfer credit availability. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the Business program.

Certificates Available:
- Accounting/Income Tax Fundamentals
- Professional Bookkeeper

Accounting
Course Requirements ..... 49 credits

ATG 110	Financial Accounting	4
ATG 111	Managerial Accounting	4
ATG 120	Microcomputer Spreadsheet Applications in Accounting	2
ATG 123	General Ledger Software Applications	2
ATG 210	Cost Accounting	4
ATG 215	Intermediate Accounting I	4
ATG 216	Intermediate Accounting II	3
ATG 218	Federal Income Tax	4
ATG 220	Fraud Detection & Deterrence	3
ATG 298	Accounting Capstone	4
BUS 101	Introduction to Business	3
BUS 223	Business Statistics	3
BUS 200 BUS 201	Legal Environment in Business, or, Business Law	3
BUS 203	Economics for Business	3
BUS 279	Principles of Finance	3

General Education
Course Requirements ..... 16 credits

ENG 101	Composition I	3
MGT 170	Business Communications	3
CIS 102	Introduction to Computers and Information Systems	3
PCI 106	Microcomputer Applications/ Windows Based	4
SPH 131	Fundamentals of Communication	3

CERTIFICATES:

Accounting/Income Tax Fundamentals/2011 ..... 8 credits

ATG 110	Financial Accounting	4
ATG 218	Federal Income Tax	4

Professional Bookkeeper/ 2020 ..... 26 credits

ATG 110	Financial Accounting	4
ATG 111	Managerial Accounting	4
ATG 120	Microcomputer Spreadsheet Applications	2
ATG 123	General Ledger Software Applications	2
ATG 220	Fraud Detection & Deterrence	3
ATG 298	Accounting Capstone	4
CIS 102	Introduction to Computers and Information Systems	3
PCI 106	Microcomputer Applications/ Windows Based	4

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Automotive Service Careers

Automotive Service Technology (ATM) #7100

Degree Conferred: Associate in Applied Science - 66 credits

Program Contact: Division of Technical Programs,
(815) 921-3000
RockValleyCollege.edu/ATM

Program Overview:
Graduates of the Automotive Service Technology (ATM) Program are prepared to assume positions in the automotive industry as entry-level technicians. Students become adept in all aspects of the automobile, including electrical/electronics, engine repair, engine performance, heating/AC, suspension, brakes, and transmissions. Those with a 3.0 GPA should be able to pass the industry-recommended ASE tests to enhance employability.

Work & Employment:
Successful graduates who become ASE-certified can move into positions as journeymen technicians. Technician training can lead to other career paths such as service managers, parts managers, jobber salespersons, insurance adjusters, and shop operators.

Transfer Opportunities:
Graduates of this Automotive degree have limited transfer options. Students are advised to contact the institution to which they plan to transfer to ensure course transfer credit availability. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the Automotive Service Program.

Certificates Available:
- Automotive Electrical
- Automotive Technician
- Automotive Engine
- Automotive Transmission
- Automotive Engine Performance
- Automotive Heating & Air Conditioning
- Automotive Suspension & Brakes

*Students are expected to furnish their own tool kits for class. This will be discussed during the first class session.

Automotive Core
Course Requirements
Required for both options ..... 51 credits

ATM 105	Introduction to Brake and Chassis Systems	3
ATM 106	Introduction to Automotive Electrical Systems and Powertrains	3
ATM 107	Automotive Electronic Fundamentals	4
ATM 114	Brakes	4
ATM 140	Engine Diagnosis and Repair	6
ATM 203	Heating and Air-conditioning Systems	4
ATM 221	Steering and Suspension	4
ATM 222	Manual Transmission / Transaxles	4
ATM 223	Automotive Electrical Circuits	4
ATM 242	Automatic Transmission / Transaxles	5
ATM 228	Engine Performance I	5
ATM 229	Engine Performance II	5

OPTION A:

Automotive Service Technician

If students are interested in pursuing the Automotive Service Technician option in this program, they should take the following General Education courses:

General Education
Course Requirements ..... 15 credits

ENG 101	Composition I	3
ENG 103 MGT 170 ENG 110 SPH 131	Composition II, or, Business Communications, or, Introductory Technical Writing, or, Fundamentals of Communication	3
MTH 115 MTH 120	General Education Mathematics, or, College Algebra	3
CIS 102	Introduction to Computers & Information Systems	3
ATM 236	Advanced Computers/Controls Systems	3

OPTION B:

Automotive Management

If students are interested in pursuing the Automotive Management option in this program, they should take the following General Education and Business courses. Students must complete 15 credit hours from the following:

General Education
Course Requirements ..... 12 credits

ENG 101	Composition	3
ENG 103 MGT 170 ENG 110 SPH 131	Composition II, or, Business Communications, or, Introductory Technical Writing, or, Fundamentals of Communication	3
BUS 101	Introduction to Business	3
ATM 236	Advanced Computers/Controls Systems	3

Electives: 3 credits

Select 3 credits from the following:

ATG 106	Introduction to Accounting Debits and Credits	1
ATG 107	Introduction to Accounting Special Journals	1
ATG 110	Financial Accounting	4
MGT 270	Principles of Management	3
MTH 120	College Algebra	3

Note: *Other General Education courses may be acceptable with the approval of the Technical Programs Dean.*

Automotive Service Careers (continued)

CERTIFICATES:

Automotive Technician/7101 ..... 51 credits

ATM 105	Introduction to Brake and Chassis Systems	3
ATM 106	Introduction to Automotive Electrical Systems and Powertrains	3
ATM 107	Automotive Electronic Fundamentals	4
ATM 114	Brakes	4
ATM 140	Engine Diagnosis and Repair	6
ATM 203	Heating and Air-conditioning Systems	4
ATM 221	Steering and Suspension	4
ATM 222	Manual Transmission/Transaxles	4
ATM 223	Automotive Electrical Circuits	4
ATM 242	Automatic Transmission/Transaxles	5
ATM 228	Engine Performance I	5
ATM 229	Engine Performance II	5

Automotive Heating & Air Conditioning/7117 ..... 15 credits

ATM 106	Introduction to Automotive Electrical Systems and Powertrains	3
ATM 107	Automotive Electronic Fundamentals	4
ATM 203	Heating and Air-conditioning Systems	4
ATM 223	Automotive Electrical Circuits	4

Automotive Suspension & Brakes/7112 ..... 11 credits

ATM 105	Introduction to Brake and Chassis Systems	3
ATM 114	Brakes	4
ATM 221	Steering and Suspension	4

Automotive Electrical/7113 ..... 11 credits

ATM 106	Introduction to Automotive Electrical Systems and Powertrains	3
ATM 107	Automotive Electronic Fundamentals	4
ATM 223	Automotive Electrical Circuits	4

Automotive Engine/7111 ..... 9 credits

ATM 106	Introduction to Automotive Electrical Systems and Powertrains	3
ATM 140	Engine Diagnosis and Repair	6

Automotive Engine Performance/7114 ..... 19 credits

ATM 106	Introduction to Automotive Electrical Systems and Powertrains	3
ATM 140	Engine Diagnosis and Repair	6
ATM 228	Engine Performance I	5
ATM 229	Engine Performance II	5

Automotive Transmission/7116 ..... 15 credits

ATM 105	Introduction to Brake and Chassis Systems	3
ATM 106	Introduction to Automotive Electrical Systems and Powertrains	3
ATM 222	Manual Transmission/Transaxles	4
ATM 242	Automatic Transmission/Transaxles	5

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Aviation Maintenance Technology

Aviation Maintenance Technology (AVM) #7200

Degree Conferred: Associate in Applied Science – 82 credits

Program Contact: Aviation Maintenance Technology Program, (815) 921-3016
Division of Technical Programs Office, (815) 921-3000 or
RockValleyCollege.edu/Aviation

Program Overview:
Federally-licensed graduates of the Aviation Maintenance Technology (AVM) Program are prepared to assume positions as airline or general aviation engine and/or airframe mechanics. The program is certified to provide approved instruction leading to FAA Airframe and Powerplant certificate examinations. Currently, 2,000 hours of instruction are offered in the areas of airframe and powerplant, which translates to 11 months of instruction in each year of the two-year program.

Work & Employment:
In addition to the general aviation engine and/or airframe mechanic, graduates have also found work in other job-related areas, such as sheet metal construction and repair, reciprocating and turbine engine repair and overhaul, engine accessory overhaul and repair, air conditioning systems, welding, hydraulics, pneumatics, and electrical systems maintenance.

Transfer Opportunities:
The program provides the first two years of a baccalaureate program for those who wish to pursue a four-year degree. Graduates also receive preferential admission status when they apply to the B.S. in Aviation Management or Aviation Technologies programs at Northern Illinois University, Southern Illinois University and Embry-Riddle Aeronautical University. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the Aviation program.

Previous College Credit:
The RVC/AVM program does not accept transfer credits for aviation courses completed at any other institution.

Industry Certifications (if applicable):
Upon successful completion of the AVM program, students have the opportunity to take the Federal examinations to earn an FAA Airframe Technician and Powerplant Technician license.

Applying for the Program:
A special application is required for admission to the program. Students are urged to apply as soon as possible prior to the fall term in which they wish to enroll. Contact the program office for an application.

Certificates Available:
- Aviation Maintenance
- Airframe Technician
- Powerplant Technician

Aviation Maintenance Course Requirements ..... 76 credits

AVM 101	Materials and Processes	3
AVM 102	Basic Electricity	3
AVM 103	Aviation Mathematics and Physics	2
AVM 104	Records and Publications	3
AVM 105	Aircraft Drawing-Weight and Balance	3
AVM 106	Cleaning and Corrosion Control	3
AVM 160	Fuel and Lubrication Systems	6
AVM 161	Engine Support Systems	3
AVM 162	Basic Powerplants	6
AVM 163	Ignition Systems	3
AVM 164	Advanced Powerplants	6
AVM 165	Engine Electrical Systems	2
AVM 166	Propeller Systems	3
AVM 241	Aircraft Finishing and Covering	3
AVM 242	Cabin Atmosphere Control Systems	2
AVM 243	Aircraft Welding	1
AVM 244	Aircraft Auxiliary Systems	1
AVM 245	Aircraft Electrical Systems	3
AVM 246	Aircraft Instruments and Communication Systems	2
AVM 247	Aircraft Metal Structures	6
AVM 248	Hydraulic and Pneumatic Control Systems	3
AVM 249	Aircraft Fuel Systems	1
AVM 250	Assembly and Rigging	3
AVM 251	Landing Gear Systems	3
AVM 252	Airframe Inspection	2

General Education Course Requirements ..... 6 credits

ENG 101	Composition I	3
ENG 110	Introductory Technical Writing, or,	
SPH 131	Fundamentals of Communication, or,	
ENG 103	Composition II	3

Aviation Maintenance Technology (continued)

CERTIFICATES:

Aviation Maintenance/7201 ..... 76 credits

AVM 101	Materials and Processes	3
AVM 102	Basic Electricity	3
AVM 103	Aviation Mathematics and Physics	2
AVM 104	Records and Publications	3
AVM 105	Aircraft Drawing-Weight and Balance	3
AVM 106	Cleaning and Corrosion Control	3
AVM 160	Fuel and Lubrication System	6
AVM 161	Engine Support System	3
AVM 162	Basic Powerplants	6
AVM 163	Ignition Systems	3
AVM 164	Advanced Powerplants	6
AVM 165	Engine Electrical Systems	2
AVM 166	Propeller Systems	3
AVM 241	Aircraft Finishing and Covering	3
AVM 242	Cabin Atmosphere Control Systems	2
AVM 243	Aircraft Welding	1
AVM 244	Aircraft Auxiliary Systems	1
AVM 245	Aircraft Electrical Systems	3
AVM 246	Aircraft Instruments and Communication Systems	2
AVM 247	Aircraft Metal Structures	6
AVM 248	Hydraulic and Pneumatic Control Systems	3
AVM 249	Aircraft Fuel Systems	1
AVM 250	Assembly and Rigging	3
AVM 251	Landing Gear Systems	3
AVM 252	Airframe Inspection	2

Airframe Technician/7202 ..... 47 credits

AVM 101	Materials and Processes	3
AVM 102	Basic Electricity	3
AVM 103	Aviation Mathematics and Physics	2
AVM 104	Records and Publications	3
AVM 105	Aircraft Drawing-Weight and Balance	3
AVM 106	Cleaning and Corrosion Control	3
AVM 241	Aircraft Finishing and Covering	3
AVM 242	Cabin Atmosphere Control Systems	2
AVM 243	Aircraft Welding	1
AVM 244	Aircraft Systems Auxiliary	1
AVM 245	Aircraft Electrical Systems	3
AVM 246	Aircraft Instruments and Communication Systems	2
AVM 247	Aircraft Metal Structures	6
AVM 248	Hydraulic and Pneumatic Control Systems	3
AVM 249	Aircraft Fuel Systems	1
AVM 250	Assembly and Rigging	3
AVM 251	Landing Gears Systems	3
AVM 252	Airframe Inspection	2

Powerplant Technician/7203 ..... 46 credits

AVM 101	Materials and Processes	3
AVM 102	Basic Electricity	3
AVM 103	Aviation Mathematics and Physics	2
AVM 104	Records and Publications	3
AVM 105	Aircraft Drawing-Weight and Balance	3
AVM 106	Cleaning and Corrosion Control	3
AVM 160	Fuel and Lubrication System	6
AVM 161	Engine Support System	3
AVM 162	Basic Powerplants	6
AVM 163	Ignition Systems	3
AVM 164	Advanced Powerplants	6
AVM 165	Engine Electrical Systems	2
AVM 166	Propeller Systems	3

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Building Construction Careers

Building Construction Management (BCM) #7000

Degree Conferred: Associate in Applied Science – 65 credits

Program Contact: Division of Engineering and Technology,
(815) 921-3101
RockValleyCollege.edu/BCM

Program Overview:
Graduates of the Building Construction Management (BCM) Program organize, lead, and manage the resources, materials, and the processes related to building construction, both commercial and residential.

Work & Employment:
Graduates work in such jobs as estimators, detailers, surveying technicians, and in construction sales. With additional experience, successful graduates can advance to field engineering assistant, construction or maintenance supervisor, building inspector, or contractor.

Transfer Opportunities:
Graduates of the program have the option to transfer their degree to various four-year universities to pursue a B.S. in Construction Management. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the BCM program.

Building Construction Course Requirements ..... 47 credits

BCM 100	Introduction to Construction Management	3
BCM 104	Construction Blueprint Reading	3
BCM 117	Construction Materials & Methods	3
ATG 106	Accounting Debits & Credits	1
ATG 107	Accounting Special Journals	1
BCM 120	Mechanical Systems	3
BCM 125	Construction Safety	3
BCM 137	Architectural CAD Drafting I	3
BUS 101	Introduction to Business	3
BCM 195	Construction Surveying I	3
BCM 219	Statics & Strength of Materials for Building Construction	3
BCM 237	Architectural CAD Drafting II	3
BCM 239	Wood Frame Structures	3
BCM 251	Codes, Contracts & Specifications	3
BCM 260	Construction Estimating	3
BCM 270	Construction Job Scheduling	3
BCM	Elective	3

General Education Course Requirements ..... 18 credits

Requirements ..... 15 credits

BIO 106	Environmental Science	3
BIO 107	Environmental Science Lab	1
ENG 101	Composition I	3
ENG 103	Composition II, or,	
MGT 170	Business Communications, or,	
ENG 110	Introductory Technical Writing, or,	
SPH 131	Fundamentals of Communication	3
MTH 132	College Algebra and Trigonometry (5), or,	
MTH 100	Technical Mathematics (5)	5

Electives: Select 3 credits from the following as needed ..... 3 credits

- Mathematics course (MTH)
- Humanities course (HUM)
- Science course
- Fitness, Wellness, & Sport course (FWS)

Note: Other General Education courses approved by the BCM Academic Chair may be substituted.

BCM - Electives:

BCM 168	Construction Internship	1-6
BCM 218	Construction Surveying II	3
BCM 258	Case Study in Construction Management	3
BCM 268	Home Performance & Energy Auditing	3
BCM 278	Green Building Fundamentals	3
BCM 298	Independent Study	1-6

CERTIFICATES:

Construction Management/7012 ..... 23 credits

BCM 100	Introduction to Construction Management	3
BCM 125	Construction Safety	3
BCM 251	Codes, Contracts & Specifications	3
BCM 258	Case Study in Construction Management	3
BCM 260	Construction Estimating	3
BCM 270	Construction Job Scheduling	3
BUS 101	Introduction to Business	3
ATG 106	Accounting Debits & Credits	1
ATG 107	Accounting Special Journals	1

Building Construction/7014 ..... 36 credits

BCM 100	Introduction to Construction Management	3
BCM 104	Construction Blueprint Reading	3
BCM 117	Construction Materials & Methods	3
BCM 120	Mechanical Systems	3
BCM 125	Construction Safety	3
BCM 137	Architectural CAD Drafting I	3
BCM 195	Construction Surveying I	3
BCM 237	Architectural CAD Drafting II	3
BCM 239	Wood Frame Structures	3
BCM 251	Codes, Contract & Specifications	3
BCM 260	Construction Estimating	3
BCM 270	Construction Job Scheduling	3

Construction Administrative Assistant/7010 ..... 15 Credits

BCM 100	Introduction to Construction Management	3
BCM 104	Construction Blueprint Reading	3
ATG 106	Accounting Debits & Credits	1
ATG 107	Accounting Special Journals	1
PCI 106	Microcomputer Applications/Windows	4
BCM 251	Codes, Contracts & Specifications	3

Construction Methods and Materials/7011 ..... 15 credits

BCM 104	Construction Blueprint Reading	3
BCM 117	Construction Materials & Methods	3
BCM 239	Wood Frame Structures	3
BCM 270	Construction Job Scheduling	3
BCM 278	Green Building Fundamentals	3

Residential Construction/7013 ..... 12 credits

BCM 104	Construction Blueprint Reading	3
BCM 195	Construction Surveying I	3
BCM 120	Mechanical Systems	3
BCM 239	Wood Frame Structures	3

Basic Construction/7016 ..... 15 credits

BCM 100	Introduction to Construction Management	3
BCM 104	Construction Blueprint Reading	3
BCM 117	Construction Materials & Methods	3
BCM 120	Mechanical Systems	3
BCM 125	Construction Safety	3

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Building Construction Careers (continued)

Sustainable Building Science (SBS) #7050

Degree Conferred: Associate in Applied Science – 64 credits

Program Contact: Division of Engineering and Technology, (815) 921-3101 RockValleyCollege.edu/Engineering

Program Overview:
Graduates of this program organize, lead, and manage the process related to Building Construction by promoting sound building practices with emphasis on energy conservation, human comfort, and responsible resource management.

Work & Employment:
Graduates work in such jobs as sustainability coordinator, energy auditor, envelope professional, or resource manager. With additional experience, successful graduates can advance to LEED professional, project engineer, building inspector, construction or maintenance supervisor, or green building contractor.

Transfer Opportunities:
Graduates of the program have the option to transfer their degree to various four-year universities to pursue a B.S. in Construction Management or Sustainability. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the SBS program.

Sustainable Building Science
Course Requirements ..... 46 credits

BCM 100	Construction Management	3
BCM 104	Construction Blueprint Reading	3
BCM 117	Construction Materials & Methods	3
BCM 120	Mechanical Systems	3
BCM 125	Construction Safety	3
BCM 137	Architectural CAD Drafting I	3
BCM 219	Statics and Strength of Materials	3
BCM 239	Wood Frame Structures	3
BCM 251	Codes, Contracts & Specifications	3
BCM 260	Construction Estimating	3
BCM 268	Home Performance & Energy Auditing	3
BCM 270	Construction Job Scheduling	3
BCM 278	Green Building Fundamentals	3
BUS 101	Introduction to Business	3
EET 105	Introduction to Sustainable Energy	3
BCM 298	Independent Study	1

General Education
Course Requirements ..... 18 credits
Requirements ..... 15 credits

ENG 101	Composition I	3
BIO 106	Environmental Science	3
BIO 107	Environmental Science Lab	1
MTH 100 MTH 132	Technical Math (5), or, College Algebra and Trigonometry (5)	5
ENG 103 MGT 170 ENG 110 SPH 131	Composition II (3), or, Business Communications, (3), or, Introductory Technical Writing (3), or, Fundamentals of Communication	3

Elective Course ..... 3 credits
BCM Elective course or, other General Education courses approved by the BCM Academic Chair.

BCM - Electives:

BCM 168	Construction Internship	1-6
BCM 195	Construction Surveying I	3
BCM 218	Construction Surveying II	3
BCM 237	Architectural CAD Drafting II	3
BCM 250	Special Topics in Building Construction	3
BCM 258	Case Study in Construction Management	3

CERTIFICATE:

Sustainable Construction/7051 ..... 15 credits

BCM 117	Construction Materials & Methods	3
BCM 120	Mechanical Systems	3
BCM 268	Home Performance & Energy Auditing	3
BCM 278	Green Building Fundamentals	3
EET 105	Introduction to Sustainable Energy	3

Second A.A.S. Degree Requirements for either the BCM or SBS A.A.S Degrees (15 credits):

The course requirements for the Building Construction Management and the Sustainable Building Science degree programs are very similar. Therefore, obtaining a second degree is an exciting option for many graduates. Specifically, a graduate of the BCM program may desire to obtain a second degree in SBS. ***Fundamentally, a minimum of 15 additional credits must be taken.***

A GRADUATE OF THE BCM PROGRAM (7000) WHO DESIRES TO ALSO RECEIVE A SBS (7050) DEGREE MUST TAKE:

BCM 268	Home Performance & Energy Auditing	3
BCM 278	Green Building Fundamentals	3
EET 105	Introduction to Sustainable Energy	3
BCM	Elective	3
BCM	Elective	3

(This means an BCM graduate must take an additional 15 credits to receive a second degree in SBS.)

A GRADUATE OF THE SBS PROGRAM (7050) WHO DESIRES TO ALSO RECEIVE A BCM (7000) DEGREE MUST TAKE:

BCM 195	Construction Surveying I	3
BCM 237	Architectural CAD Drafting II	3
ATG 106	Accounting Debits & Credits	1
ATG 107	Accounting Special Journals	1
BCM	Elective	3
BCM	Elective	3
BCM 298	Independent Study	1

(This means an SBS graduate must take an additional 15 credits to receive a second degree in BCM.)
Students are required to contact the BCM Academic Chair, (815)921-3101, for more information about obtaining a second degree in this field.

A prerequisite or corequisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

Business Administration

Business Administration (BUS) #2100

Degree Conferred: Associate in Applied Science – 65 credits

Program Contact: Division of Business / Computers & Information Systems, (815) 921-3101 RockValleyCollege.edu/BusinessAdmin

Program Overview:
Graduates of the Business Administration Program will have acquired knowledge and skills of business and leadership which can be applied to entry level jobs. Additionally, graduates of the business program will have the knowledge and skills required to meet the criteria of success for the RVC Student Learning Outcomes.

General Business: Graduates will have acquired a broad knowledge and skill of business and an overview of all general business concepts. Students who choose this focus will be prepared to work in a variety of business positions.

Management: Graduates will have acquired a broad base of business knowledge and skills, management techniques, and leadership skills. Students who choose this focus will be prepared for entry level supervisory positions in a variety of leadership positions.

Marketing: Graduates will learn about the various career paths available in marketing and learn the concepts behind the development of products, pricing, promotion, and distribution. Students who choose this focus will be prepared to work in a variety of entry-level marketing positions in business.

Entrepreneurship: Graduates will learn how the Entrepreneurship Program provides students an understanding of the many facets of entrepreneurship. Students will learn the process of identifying a business opportunity and developing an organization to establish a new venture. The curriculum will provide students with the proper tools to evaluate the feasibility of a new venture and to identify the available resources for assisting an entrepreneur during the start-up phase of the business. Students taking entrepreneurial courses will become a motivated and valued employee, captain, leader, owner, or manager that understands how to take a problem and turn it into an opportunity. Students will experience the ABC's of starting and managing your own business. Students recognize and understand the difference between a good idea and a real business opportunity. Students investigate and experience the basics of starting a company creates both value and experience that will be used throughout your career, despite the area of interest.

Work & Employment:
Graduates of this program are prepared to assume entry level positions or advance their current position in management, marketing, sales, purchasing, finance, and human relations among other areas. In addition, students are encouraged to explore opportunities to transfer and pursue a bachelor degree in Entrepreneurship. The Rock Valley College Business Program has several articulation agreements in place which allow students to transfer credit towards a bachelor degree program. Please make an appointment with an Academic Advisor, the Business/CIS Dean, or Business Academic Chair to discuss appropriate plans of study for transfer options.

Business Administration Course Requirements ..... 38 credits

ATG 110	Financial Accounting	4
BUS 101	Introduction to Business	3
BUS 103 / BUS 223	Business Mathematics, or, Business Statistics	3
BUS 200 / BUS 201	Legal Environment in Business, or, Business Law	3
BUS 203	Economics for Business	3
BUS 279	Principles of Finance	3
BUS 282	International Business	3
BUS 298	Global Small Business Incubator	3
MGT 270	Principles of Management	3
MKT 260	Principles of Marketing	3
MKT 288	Customer Relations	3
PCI 106	Microcomputer Applications/Windows	4

CHOOSE APPROPRIATE OPTION ..... 9 credits

OPTION A: General Business ..... 9 credits

BUS 105	Consumer Economics & Personal Finance	3
BUS 170	Introduction to Organizational Behavior	3
Electives		3

Any Business Division course with prefix ATG, BUS, MGT, MKT, OFF, or PCI.

OPTION B: Management ..... 9 credits

***Note:* This option requires BUS 223 Business Statistics instead of BUS 103 Business Mathematics.**

BUS 170	Introduction to Organizational Behavior	3
MGT 271	Human Resource Management	3
MGT 274	Leadership	3

OPTION C: Marketing ..... 9 credits

MKT 265	Salesmanship	3
MKT 266	Principles of Advertising	3
Electives		3

Any Business Division course with prefix ATG, BUS, MGT, MKT, OFF, or PCI.

OPTION D: Entrepreneurship ..... 9 credits

BUS 130	Entrepreneurship: Principles	3
BUS 131	Entrepreneurship: Planning	3
BUS 230	Entrepreneurship: Capstone	3

OPTION E: Specialized Management or Marketing ..... 9 credits

To meet the needs of a special situation, the Business/CIS Dean will work with the student to design a specialized curriculum. All courses applied to this option must have the prior approval of the Business/CIS Dean.

Business Administration (continued)

General Education
Course Requirements ..... **18 credits**
Required Courses ..... **12 credits**

CIS 102	Introduction to Computer Systems	3
ENG 101	Composition I	3
MGT 170	Business Communications	3
SPH 131	Fundamentals of Communication	3

Electives ..... **6 credits**

Students must select courses with at least two different prefixes in the IAI General Education Core Curriculum areas.

(Example: ART, BIO, ECO, ENG, MTH, SOC, etc.) to fulfill general education elective requirements.

Business Program Elective Courses:

BUS 295	Independent Study in Business Administration	1-6
BUS 296	Special Topics in Business Administration	1-4
MGT 281	Women in Management	3
MGT 282	Independent Study in Management	1 3
MGT 283	Internship in Business Management	1-6
MKT 281	International Marketing	3
MKT 293	Internship – Marketing	1-3
MKT 295	Independent Study in Marketing	1-3

CERTIFICATES:

Certificates may be awarded in several areas of business. Certificates are for students who wish to concentrate on specific areas of interest by taking a few courses targeted at those interests. The certificates demonstrate to employers that skills have been acquired in particular areas of practice.

Business Fundamentals/2114 ..... **29 credits**

This certificate is designed for students who are interested in focused course work in business fundamentals. Students will be able to demonstrate to employers a general understanding in the basic areas of business.

ATG 110	Financial Accounting	4
BUS 101	Introduction to Business	3
BUS 103 BUS 223	Business Mathematics, or, Business Statistics	3
BUS 170	Introduction to Organizational Behavior	3
BUS 200 BUS 201	Legal Environment in Business, or, Business Law	3
MGT 270	Principles of Management	3
MKT 260	Principles of Marketing	3
PCI 106	Microcomputer Applications/Windows Based	4
MGT 170	Business Communications	3

Management/2511 ..... **29 credits**

This certificate in management is intended for individuals who wish to develop or enhance skills in management and supervision. It offers students the course work required to receive fundamental management skills and prepare students who are interested in mid-to-upper level supervision positions.

ATG 110	Financial Accounting	4
BUS 101	Introduction to Business	3
MGT 270	Principles of Management	3
MGT 274	Leadership	3
MKT 260	Principles of Marketing	3
MKT 288	Customer Relations	3
PCI 106	Microcomputer Applications/Windows Based	4
MGT 170	Business Communications	3

Students must select one of the following courses for 3 credits:

BUS 170	Introduction to Organizational Behavior	3
MGT 271	Human Resource Management	3
MGT 283	Internship in Business Management	3

Marketing/2211 ..... **21 credits**

This certificate is for students who are interested in marketing and want to acquire specific skills in the areas of sales, advertising and customer relations.

BUS 101	Introduction to Business	3
MKT 260	Principles of Marketing	3
MKT 265	Salesmanship	3
MKT 266	Principles of Advertising	3
MKT 288	Customer Relations	3
MGT 170	Business Communications	3
SPH 131	Fundamentals of Communication	3

Entrepreneurship/2105 ..... **29 credits**

This certificate is for students who are interested in starting a new business venture and want to acquire specific skills in entrepreneurial activities.

ATG 110	Financial Accounting	4
BUS 130	Entrepreneurship: Principles	3
MGT 270	Principles of Management	3
BUS 131	Entrepreneurship: Planning	3
BUS 230	Entrepreneurship: Capstone	3
MKT 260	Principles of Marketing*	3
MKT 288	Customer Relations	3
PCI 106	Microcomputer Applications/Windows Based	4
MGT 170	Business Communications	3

(*MGT 274 can replace MKT 260 with Chair approval)

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Computer Careers

Computers & Information Systems (CIS) #2700

Degree Conferred: Associate in Applied Science – 64 credits

Program Contact: Division of Business / Computers & Information Systems (CIS) Engineering and Technology (EAT), (815) 921-3101 RockValleyCollege.edu/CIS

Program Overview:
Graduates of the Computers and Information Systems (CIS) Program learn the complexities of computer software, hardware, and programming processes to enable them to be successful in the workplace. For those who decide to pursue a bachelor's degree, the Computers and Information Systems (CIS) Program offers courses that can be successfully transferred to baccalaureate institutions. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the CIS program.

The Business/CIS/EAT Division also offers degrees in Website development and networking. For information on these other A.A.S. degrees, please see the Web Programming & Design, Cisco Networking, or Data Assurance and IT Security programs elsewhere in this A.A.S. degree section of the catalog.

Work & Employment:
Although many graduates of the program begin work as entry-level programmers, opportunities are also available as a programmer/analyst, technical support specialist, PC specialist, operations specialist, and in database support.

Industry Certifications (if applicable):
Course work prepares students for the Java Programmer Level 1 Certification.

Certificates Available:
- C/C++ Programming
- Visual Basic Programming

CIS Core Requirements ..... 33 credits

CIS 102	Introduction to Computers and Information Systems	3
CIS 170	Programming Logic & Design	3
CIS 180	Introduction to Visual Basic Programming	4
CIS 240	Introduction to Java Programming	4
CIS 254	Database Programming	4
CIS 276	Introduction to C/C++ Programming, or,	
CIS 279	Visual C# Programming	4
PCT 110	Network Essentials	3
WEB 101	Programming Related to the Internet	4
WEB 102	Advanced Programming Related to the Internet	4

General Education Course Requirements ..... 15 credits

ENG 101	Composition I	3
ENG 103	Composition II, or,	
MGT 170	Business Communications, or,	
ENG 110	Introductory Technical Writing	3
SPH 131	Fundamentals of Communication	3
MTH 120	College Algebra, or,	
MTH 160	Topics from Finite Mathematics, or,	
MTH 220	Elements of Statistics	3
BUS 170	Introduction to Organizational Behavior, or,	
PSY 170	General Psychology, or,	
SOC 190	Introduction to Sociology	3

CIS Electives ..... 16 credits

With the approval of the CIS Academic Chair, select courses from the following list:

CIS 241	Advanced Java Programming	4
CIS 245	Programming Android for Mobile Devices	4
CIS 277	Advanced C/C++ Programming	4
CIS 280	Programming iOS Apple Mobile Devices	4
PCT 270	Introduction to UNIX/Linux	3
WEB 233	Web Programming using Client-Side Scripting	4
WEB 234	PHP Programming	4

CERTIFICATES:

C/C++ Programming/2735 ..... 15 credits

CIS 170	Programming Logic & Design	3
CIS 276	Introduction to C/C++ Programming	4
CIS 277	Advanced C/C++ Programming	4
CIS 279	Visual C# Programming	4

Visual Basic Programming/2745 ..... 15 credits

CIS 170	Programming Logic & Design	3
CIS 180	Introduction to Visual Basic Programming	4
CIS 181	Advanced Visual Basic Programming	4
CIS 184	Visual Basic Programming III	4

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Computer Careers (continued)

Personal Computer Technical Specialist – PCT

The Personal Computer Technical Specialist area describes a series of specialized computer-related degree programs in some of the most in-demand career fields. They include:

1. Cisco Networking A.A.S. (also has three certificate-level programs) and
2. Data Assurance and IT Security A.A.S. (also has three certificate-level programs).
3. Web Programming and Design A.A.S. (also has two certificate-level programs).

For information on these A.A.S. degrees and certificates, please see program information elsewhere in the Career & Technical Education section.

CISCO Networking #3750

Degree Conferred: Associate in Applied Science – 64 credits

Program Contact: Division of Business / Computers & Information Systems, (815) 921-3101 RockValleyCollege.edu/CISCO

Program Overview:
Graduates of the program are prepared to obtain Cisco's CCNA certification. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the CIS program.

Work & Employment:
Successful graduates have found work as network support specialists, software support specialists, network administrators, system administration, and network specialists among others.

Industry Certifications:
Graduates of this program are prepared to obtain any, or all, of the following certifications:
- **Cisco:** CCENT, CCNA, CCNP
- **CompTIA:** A+, Security+, Network+
- **Microsoft:** Microsoft Certified Technology Specialist (MCTS)

Certificates Available:
- Cisco Networking
- Cisco Advanced Networking
- Microsoft Server Administration

Cisco Networking Specialist Course Requirements ..... 49 credits

Cisco Networking Core Requirements ..... 10 credits

CIS 102	Introduction to Computers & Information Systems	3
WEB 101	Programming Related to the Internet	4
PCT 270	Introduction to Unix/Linux	3

Cisco Networking Electives ..... 10 credits
With the approval of the CIS Academic Chair, select courses with any of the following prefixes: CIS, PCT, or WEB.

Cisco Networking Specialization ..... 29 credits

CIS 276	Introduction to C/C++ Programming	4
EET 100	Introduction to Electronics	3
PCT 112	Windows Server Fundamentals	3
PCT 120	Cisco Networking I	4
PCT 122	Cisco Networking II	4
PCT 124	Cisco Networking III	4
PCT 126	Cisco Networking IV	4
PCT 262	Computer Service and Repair	3

General Education Course Requirements ..... 15 credits

ENG 101	Composition I	3
ENG 103 MGT 170 ENG 110	Composition II, or, Business Communications, or, Introductory Technical Writing	3
SPH 131	Fundamentals of Communication	3
MTH 120 MTH 160 MTH 220	College Algebra, or, Topics from Finite Mathematics, or, Elements of Statistics	3
BUS 170 PSY 170 SOC 190	Introduction to Organizational Behavior, or, General Psychology, or, Introduction to Sociology	3

CERTIFICATES:

Cisco Networking/3720 ..... 19 credits

CIS 102	Introduction to Computers & Information Systems	3
PCT 120	Cisco Networking I	4
PCT 122	Cisco Networking II	4
PCT 124	Cisco Networking III	4
PCT 126	Cisco Networking IV	4

Cisco Advanced Networking/3721 ..... 12 credits

PCT 220	Advanced Routing	4
PCT 224	Advanced Switching	4
PCT 226	Troubleshooting	4

Microsoft Server Admin. Certificate/3725 ..... 9 credits

PCT 111	Microsoft Active Directory	3
PCT 112	Window Server Fundamentals	3
PCT 113	Microsoft Windows Infrastructure	3

A prerequisite or corequisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

Computer Careers (continued)

Data Assurance & IT Security #3775

Degree Conferred: Associate in Applied Science – 64 credits

Program Contact: Division of Business / Computers & Information Systems, (815) 921-3101 RockValleyCollege.edu/ITSecurity

Program Overview:
Graduates of the Data Assurance & IT Security Program are prepared for a career in computer network and Internet security. Responsibilities include developing information security strategies, performing analyses, installing security software, monitoring network traffic, and developing emergency plans.

Work & Employment:
With the increased concern over computer security issues, employers are looking for people with skills in this area. Graduates secure jobs such as security specialists, network specialists, security technicians, security support specialists, and security assistants. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the CIS program.

Industry Certifications:
Graduates of this program are prepared to obtain any, or all, of the following certifications:
- **Cisco:** CCENT, CCNA, CCNP
- **CompTIA:** A+, Security+, Network+
- **Microsoft:** Microsoft Certified Technology Specialist (MCTS)

Certificates Available:
- Voice Over IP
- Cisco CCNA Security Certificate
- Cisco CCNP Security Certificate

Data Assurance & IT Security
Course Requirements ..... 49 credits

Data Assurance & IT Security Core Courses ..... 10 credits
- CIS 102 Introduction to Computers & Information Systems 3
- WEB 101 Programming Related to the Internet 4
- PCT 270 Introduction to Unix/Linux 3

Data Assurance & IT Security Electives ..... 10 credits
With the approval of the CIS Academic Chair, select courses with any of the following prefixes: CIS, PCT, or WEB.

Data Assurance & IT Security Specialization ..... 29 credits
- PCT 112 Windows Server Fundamentals 3
- PCT 120 Cisco Networking I 4
- PCT 122 Cisco Networking II 4
- PCT 124 Cisco Networking III 4
- PCT 126 Cisco Networking IV 4
- PCT 130 Introduction to Network Security 3
- PCT 132 Advanced Network Security 3
- PCT 275 Cisco Firewall Design 4

General Education
Course Requirements ..... 15 credits
- ENG 101 Composition I 3
- ENG 103 Composition II, or, MGT 170 Business Communications, or, ENG 110 Introductory Technical Writing 3
- SPH 131 Fundamentals of Communication 3
- MTH 120 College Algebra, or, MTH 160 Topics from Finite Mathematics, or, MTH 220 Elements of Statistics 3
- BUS 170 Introduction to Organizational Behavior, or, PSY 170 General Psychology, or, SOC 190 Introduction to Sociology 3

CERTIFICATES:

Voice Over IP Associate Certificate/3755 ..... 27 credits
- PCT 120 Cisco Networking I 4
- PCT 122 Cisco Networking II 4
- PCT 124 Cisco Networking III 4
- PCT 126 Cisco Networking IV 4
- PCT 140 IP Telephony I 4
- PCT 142 IP Telephony II 4
- PCT 290 Special Topics in PC Technology 3

Cisco CCNA Security Certificate/3776 ..... 10 credits
- PCT 130 Introduction to Network Security 3
- PCT 132 Advanced Network Security 3
- PCT 275 Cisco Firewall Design 4

Cisco CCNP Security Certificate/3777 ..... 22 credits
- PCT 130 Introduction to Network Security 3
- PCT 132 Advanced Network Security 3
- PCT 220 Advanced Routing 4
- PCT 224 Advanced Switching 4
- PCT 226 Troubleshooting 4
- PCT 275 Cisco Firewall Design 4

A prerequisite or corequisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

Criminal Justice

Criminal Justice (CRM) #7800

Degree Conferred: Associate in Applied Science – 66 credits

Limited Transferability

Program Contact: Division of Social Sciences / Humanities / and Fitness, Wellness, and Sport, (815) 921-3317 RockValleyCollege.edu/CriminalJustice

Program Overview:
Graduates of the Criminal Justice (CRM) Program meet the minimum educational requirements necessary to complete for sworn positions at most local and state law enforcement agencies as well as, private security firms. With experience and additional training or education, there are opportunities for graduates to advance into areas of specialization and management.

Work & Employment:
Opportunities include positions in law enforcement, crime prevention, probation, corrections, court records, communications/ dispatch, and security/loss prevention.

More about the Program:
It is important for students to consider their career goals when they begin course work in the Criminal Justice Program. Since the degree is also designed for limited transfer to select four-year schools, future educational plans should be considered when building course schedules. Some students have career and academic plans that are more directed towards transfer to a four-year school to earn a Bachelor's degree in a Criminal Justice related field. For these students, completion of RVC's Criminal Justice A.A.S. degree may not be the best choice. Instead, these students should consider completion of an Associate of Arts degree at Rock Valley College, using selected transferable courses from the CRM curriculum as electives toward the degree. Courses from the Criminal Justice A.A.S. curriculum that are transferable to a four-year degree are indicated with the symbol "**+**" in the program curriculum description that follows.

For more information about the Criminal Justice Program, contact an Academic Advisor or the Division of Social Sciences and Humanities (815) 921-3317.

Criminal Justice
Course Requirements ..... 42 credits

Core Requirements – 24 credits

CRM 105	Police Report Writing	3
+CRM 120	Criminal Investigation	3
CRM 125	Criminal Procedure and Civil Rights	3
CRM 127	Ethics in Law Enforcement	3
+CRM 225	Juvenile Procedures	3
CRM 281	Rules of Evidence	3
CRM 282	Interviews and Interrogations	3
+CIS 102	Introduction to Computers & Information Systems	3

Electives – Select 18 credits from the following:

+CRM 101	Introduction to Criminal Justice	3
CRM 102	Introduction to Probation and Parole	3
CRM 103	Introduction to Corrections	3
CRM 104	Introduction to Private Security	3
+CRM 210	Criminal Law	3
CRM 260	Police Organization and Administration	3
CRM 271	Patrol Procedures	3
CRM 283	Special Topics in Police Science	3
CRM 291	Internship	1-6

General Education
Course Requirements ..... 24 credits

ENG 101	Composition I	3
SPH 201	Interpersonal Communication	3
PSC 160	American National Government	3
PSC 161	State and Local Government	3
PSY 170	General Psychology	3
SOC 190	Introduction to Sociology	3
SOC 291	Criminology	3
FWS 265	Personal Fitness and Wellness	3

+ – CRM Program courses that are typically accepted for transfer.

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Dental Hygiene

Dental Hygiene (DNT) #5100

Degree Conferred: Associate in Applied Science – 81 credits

Limited Transferability

Program Contact: Dental Hygiene Program Office,
(815) 921-3235
RockValleyCollege.edu/DentalHygiene

Program Mission Statement:
The RVC Dental Hygiene Program is committed to providing the highest quality education while fostering a learning environment that develops critical thinking and problem solving skills. The Program prepares students to be ethically responsible and clinically competent to enter the workforce as an entry-level dental hygienist. The Program offers an Associate in Applied Science degree with a curriculum facilitating transition toward a Baccalaureate degree. The Program strives to address the oral health needs of a diverse community by providing quality dental hygiene care in a cost-efficient manner.

Program Overview:
Graduates of this program have acquired skills to provide care that supports optimal oral health, including educational, clinical and therapeutic services. Skills are mastered through classroom, laboratory and clinical experiences to provide well-rounded career preparation.

Work & Employment:
A career in dental hygiene offers opportunities in multiple settings. Registered Dental Hygienists are part of a dental health team. Dental hygienists work in private and corporate dental offices, where they provide treatment and services that help to prevent oral disease such as dental caries and periodontal disease and educate the client about maintenance of optimal oral health. They also work in hospitals, nursing homes, extended care facilities, schools, correctional facilities, health maintenance organizations and higher education institutions where they serve as faculty members.

Professional Credential and Program Accreditation:
Graduates are eligible to take two board exams that lead to state licensure. The program is fully accredited by the Commission on Dental Accreditation (CODA) under the auspices of the American Dental Association (ADA).

Admission to the Program:
Admission is selective and competitive. All required documents must be submitted to the Dental Hygiene Program office on or before February 15th to be reviewed for admission for the fall semester. The Dental Hygiene Program holds information sessions that cover prerequisites and other important admission information. Attendance of a session is required to receive an application packet for the program.
For details on scheduling to attend an information session, call the Dental Hygiene Program office at (815) 921-3235. Please see the RVC website (RockValleyCollege.edu/DentalHygiene) for additional Dental Hygiene Program admission policies.

Prerequisite Courses:
The following courses or equivalencies must be completed before starting this program.

1. **Mathematics requirement:** Minimum Math requirement of MTH 092–Beginning Algebra Part II with minimum grade of C or higher.
2. **Biology requirement:** BIO 281/282–Human Anatomy and Physiology I/II, or equivalent, with minimum grade of C or higher.
3. **Chemistry requirement:** CHM 110/210–General, Organic and Biochemistry I/II, or CHM 120-General Chemistry I, or equivalent Chemistry course with lab.
4. **Communications requirement:** ENG 101–Composition I, or equivalent.

PROGRAM OF STUDY - TOTAL CREDIT HOURS 81

General Education Course Requirements 27

ENG 103	Composition II	3
BIO 281	Human Anatomy and Physiology I	4
BIO 282	Human Anatomy and Physiology II	4
BIO 274	Microbiology	4
SPH 131	Fundamentals of Communication	3
PSY 170	General Psychology	3
SOC 190	Introduction to Sociology	3
Elective	Humanities / Fine Arts (IAI)	3

Dental Hygiene Course Requirements 54

TERM I, FALL ..... 13 credits

DNT 102	Preventive Dental Hygiene	1
DNT 104	Dental Anatomy, Histology and Embryology	3
DNT 106	Head and Neck Anatomy	3
DNT 108	Pre-Clinical Dental Hygiene Theory	2
DNT 109	Pre-Clinical Dental Hygiene Lab	2
DNT 110	Nutrition and BioChemistry	2

TERM II, SPRING ..... 14 credits

DNT 112	Clinical Dental Hygiene I	2
DNT 113	Dental Hygiene Theory I	1
DNT 114	General and Oral Pathology	3
DNT 115	Dental Hygiene Lab I	1
DNT 116	Dental Radiology Theory	2
DNT 117	Dental Radiology Lab	1
DNT 118	Dental Pharmacology	2
DNT 120	Introduction to Periodontics I	2

TERM III, SUMMER ..... 6 credits

DNT 210	Dental Materials Theory	2
DNT 211	Dental Materials Lab	1
DNT 212	Clinical Interim	2
DNT 213	Introduction to Dental Hygiene Research	1

TERM IV, FALL ..... 15 credits

DNT 214	Periodontics II	2
DNT 215	Pain Management in Dental Hygiene Practice	3
DNT 216	Clinical Dental Hygiene II	4
DNT 217	Dental Hygiene Theory II	1
DNT 218	Dental Ethics, Jurisprudence & Practice Management	2
DNT 220	Community Dental Health	2
DNT 221	Community Dental Health Practicum	1

TERM V, SPRING ..... 6 credits

DNT 224	Clinical Dental Hygiene III	4
DNT 225	Dental Hygiene Theory III	2

Cooperative community colleges are: Blackhawk Technical College, Elgin Community College, Kishwaukee College, Highland Community College, Illinois Valley Community College, McHenry County College, and Sauk Valley Community College.

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Early Childhood Education

Early Childhood Education (ECE) #5500

Degree Conferred: Associate in Applied Science – 65 credits

Program Contact: Early Childhood Education Chair,
(815) 921-3378
RockValleyCollege.edu/ECE

Program Overview:
Graduates of the Early Childhood Education (ECE) Program are well-versed in child development, developmentally appropriate practices, discipline techniques, and other integral facets of early childhood education. Students will be prepared to direct or teach at a day care center or preschool.

Enrollment in courses requires weekly field assignments as well as a complete medical examination, TB skin test, State background checks, and three (3) written references.

Work & Employment:
Opportunities exist in home-based care, day care centers, nursery schools, preschools, private homes, and at before or after-school programs. While the program is not preparation for state certification, courses may transfer to four-year schools, where certification can be earned to teach ages birth through third grade. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the ECE program.

Early Childhood Education Course Requirements ..... 41 credits

ECE 100 ECE 200	The Child Care Worker, or, Introduction to Early Childhood Education	3
ECE 101	The Developing Child	5
ECE 103	Nutrition and Health of the Young Child	2
ECE 104	Large Muscle Development	2
ECE 105	Developing Techniques for Working with the Young Child	3
ECE 106	Music for the Young Child	3
ECE 107	Science for the Young Child	2
ECE 108	Art for the Young Child	3
ECE 201	Language Development	3
ECE 202	Family-Community Relationships and Resources	3
ECE 113 ECE 203	Infant & Toddler Curriculum, or, Curriculum Planning for the Young Child	3
ECE 204	Internship-Child Care	4
ECE 205	Organization and Supervision of Early Childhood Facilities	3
ECE 206	Mathematics for the Young Child	2

General Education Course Requirements ..... 24 credits

BIO	Elective	3
ENG 101	Composition I	3
PSY 170	General Psychology	3
EDU 244	Students with Disabilities in Schools	3
PSY 270 SOC 190	Life-Span Developmental Psychology, or, Introduction to Sociology	3
SOC 299 EDU 202	Marriage and the Family, or, Children's Literature	3
SPH 131	Fundamentals of Communication	3
Elective:	*Select 3 credits from the following course prefixes/Divisions CIS, HUM, Social Sciences, Mathematics, or Science electives.*	3

CERTIFICATES:

Early Childhood Educator/5501 ..... 35 credits

ECE 100 ECE 200	The Child Care Worker, or, Introduction to Early Childhood Education	3
ECE 101	The Developing Child	5
ECE 103	Nutrition and Health of the Young Child	2
ECE 104	Large Muscle Development	2
ECE 105	Developing Techniques for Working with the Young Child	3
ECE 106	Music for the Young Child	3
ECE 107	Science for the Young Child	2
ECE 201	Language Development	3
ECE 202	Family-Community Relationships and Resources	3
ECE 204	Internship – Child Care	4
ECE 206	Mathematics for the Young Child	2
ECE 203	Curriculum Planning for the Young Child	3

Early Childhood Educator Assistant/5511 ..... 11 credits

ECE 100 ECE 113 ECE 200	The Child Care Worker, or, Infant and Toddler Curriculum, or, Introduction to Early Childhood Education	3
ECE 101	The Developing Child	5
ECE 105	Developing Techniques for Working with the Young Child	3

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Electronic Engineering Technology

Electronic Engineering Technology (EET) #8400

Degree Conferred: Associate in Applied Science – 66 credits

Program Contact: Division of Engineering and Technology, (815) 921-3101
RockValleyCollege.edu/EET

Program Overview:
Graduates of the Electronic Engineering Technology (EET) Program have the necessary skills to use electronic test equipment to make measurements, understand electrical schematics and blueprints, analyze electronic circuits and understand fundamental design concepts, relate the principles of electrical circuits to hydraulic circuits and pneumatics. The graduates are ready to support manufacturing, design test equipment, produce and test products, and to assist in product development.

Work & Employment:
Successful graduates secure positions as test equipment designers, quality assurance and reliability specialists, sales and service professionals, control system technicians, medical equipment experts, or as part of a manufacturing support team.

Industry Certifications (if applicable):
Students are positioned to prepare to take the Electronics Technicians Association, International certification examination to become an Associate Electronics Technician. Students can also earn a Fanuc robotics certification.

Hands-On Learning:
Most EET classes include a hands-on laboratory component taught by instructors with industrial experience. You will learn how to use electronic test equipment like oscilloscopes, function generators, and digital multimeters.

Transfer Opportunities:
EET graduates have the option to pursue a baccalaureate degree from Northern Illinois University and other select universities. Students are advised to contact the institution to which they plan to transfer to assess course transfer credit availability. Students should also consult with an Academic Advisor, the Dean, or the Academic Chair of the EET program.

Certificates Available:
- Electronics Certificate
- Basic Electronics Certificate

Electronic Engineering Technology Course Requirements ..... 50 credits

Note: a grade of C or better is required in the core requirements and technical electives.

Core Requirements ..... 44 credits

EET 125	Electronic Fabrications Skills	2
EET 135	Digital Electronics	4
EET 141	DC/AC Circuits and Electronics I	4
EET 142	DC/AC Circuits and Electronics II	4
EET 240	DC/AC Circuits and Electronics III	4
EET 251	Microcontrollers and Interfacing	4
EET 254	Robotics and Automated Systems	3
EET 282	EET Capstone Project	3
EET 298	EET Seminar	3
MET 133	Graphics / SolidWorks™ CAD	3
MET 100	Introductory CAD and Print Reading	3
MET 146	Hydraulics, Pneumatics, and PLCs	3
MET 162	Applied Physics	4

Electives: Select 6 credits from the following ..... 6 credits

EET 105	Intro to Sustainable Energy	3
EET 168	Electronic Engineering Technology Internship	1-6
EET 219	Electric Motors, Controls, and Variable Speed Drives	4
EET 239	Programmable Logic Controllers (PLCs)	3
EET 242	Sensors, Transducers, and Signal Conditioning	3
EET 245	Control Systems	3
EET 261	Advanced Microcontrollers	3
EET 275	Wireless Electronics	3
EET 285	Introduction to Digital Signal Processing	3
EET 299	Special Topics in Electronic Engineering Technology	1-6

General Education Course Requirements ..... 16 credits

Required General Education ..... 9 credits

ENG 101	Composition I	3
ENG 110 SPH 131	Technical Writing, or, Fundamentals of Communication	3
MTH 125 MTH 132 MTH 100	Plane Trigonometry (3), or, College Algebra and Trigonometry (5), or, Technical Mathematics (5)	3

General Education Electives ..... 7 credits

Science Electives (4):
Select 4 credits from the following list of courses ..... 4 credits

PHY 201	Mechanics and Heat	4
CHM 105	Chemistry and Society	4
CHM 120	General Chemistry I	4
BIO 103 BIO 104	Introductory Life Science (3), and, Introductory Life Science Laboratory (1)	4
BIO 106 BIO 107	Environmental Science (3), and, Environmental Science Lab (1)	4

Liberal Arts Elective (3):
Select 3 credits from the following General Education Core Curriculum (GECC)/IAI approved areas ..... 3 credits
(Example: ART, ECO, ENG, HUM, LIT, MUS, PHL, SOC, etc., see GECC list on page 34.)

Electronic Engineering Technology (continued)

CERTIFICATES:

Electronics Certificate EET/8401 ..... 50 credits

EET 125	Electronic Fabrication Skills	2
EET 135	Digital Electronics	4
EET 141	DC/AC Circuits and Electronics I	4
EET 142	DC/AC Circuits and Electronics II	4
EET 240	DC/AC Circuits and Electronics III	4
EET 251	Microcontrollers and Interfacing	4
EET 254	Robotics and Automated Systems	3
EET 282	EET Capstone Project	3
EET 298	EET Seminar	3
EET	Elective	3
EET	Elective	3
MET 100	Introductory CAD and Print Reading	3
MET 133	Graphics/SolidWorks CAD I	3
MET 146	Hydraulics, Pneumatics, and PLCs	3
MET 162	Applied Physics	4

Basic Electronics Certificate EET/8414 ..... 27 credits

EET 125	Electronic Fabrication Skills	2
EET 135	Digital Electronics	4
EET 141	DC/AC Circuits and Electronics I	4
EET 142	DC/AC Circuits and Electronics II	4
MET 100	Introductory CAD and Print Reading	3
MET 133	Graphics/SolidWorks CAD I	3
MET 146	Hydraulics, Pneumatics, and PLCs	3
MET 162	Applied Physics	4

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Second A.A.S. Degree Requirements for either the EET or SES A.A.S Degrees (15 credits):

The course requirements for the Electronic Engineering Technology and the Sustainable Energy Science degree programs are very similar. Therefore, obtaining a second degree is an exciting option for many graduates. Specifically, a graduate of the EET program may desire to obtain a second degree in SES.
Fundamentally, a minimum of 15 additional credits must be taken.

A graduate of the EET program (8400) who desires to also receive an SES program degree (8600) must take:

EET 105	Introduction to Sustainable Energy Concepts *(could have been used as an EET elective previously)*	3
	(could have been used as an EET elective previously)	
CHM 105	Chemistry and Society, or,	
CHM 120	General Chemistry I *(could have been used as an EET elective previously)*	4
EET 107	Introduction to Codes and Standards	3
EET 168	Electronic Engineering Technology Internship	2
EET 190	Sustainable Electrical Energy Generation	3
EET 277	Geothermal, Solar Heating & Lighting	3

(This means an EET graduate must take between 15 to 18 additional credits to receive a second degree in SES.)

A graduate of the SES program (8600) who desires to also receive an EET program degree (8400) must take:

EET 125	Electronic Fabrications Skills	2
MET 133	Graphics/SolidWorks CAD I	3
MET 146	Hydraulics, Pneumatics and PLCs	3
EET 254	Robotics & Automated Systems	3
EET	Elective	4

(This means an SES graduate must take 15 additional credits to receive a second degree in EET.)
Students are advised to contact the Division of Engineering and Technology, (815) 921-3101 for more information about obtaining a second degree in this field.

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Fire Science

Fire Science (FRE) #7500

Degree Conferred: Associate in Applied Science – 64 credits

Limited Transferability

Program Contact: Division of Allied Health (815) 921-3200 or program coordinator (815) 921-3256 RockValleyCollege.edu/Fire Science

Program Overview:
Graduates of Rock Valley College's Fire Science program are prepared to enter a career in the fire service or expand their current fire service profession options. Students will gain knowledge in a wide variety of subjects including Fire Suppression, Building Construction, Rescue Practices, Hazardous Materials, Fire Prevention, Emergency Medical Services, and Fire Service Management. The Fire Science Program at RVC offers two learning opportunities for students:

- **Non-Internship Sequence Option A:** Intended for firefighters who wish to expand their knowledge base and enhance current skills for personal growth and/or advancement while earning a degree.
- **Internship Sequence Option B:** Aimed at college students with no previous firefighting experience. This option prepares students for an entry level position on a fire department; instruction includes classroom lecture, practical firefighter training, and an internship with an area fire department.

Work & Employment:
Graduates have secured positions in; firefighting, fire protection and prevention, fire service instruction, dispatch/communications, fire equipment and manufacturing sales, emergency medical services, and volunteer fire protection. With additional training, graduates may enter into a variety of fire service specialty fields such as fire inspection and fire investigation.

More about the Program:
Illinois currently allows for educational points for those applicants who possess an A.A.S. degree in Fire Science. While most fire departments follow standard hiring practices, each fire department may have specific requirements and/or practices. Interested students should consult with the Fire Service Coordinator or an Academic Advisor.

Transfer Opportunities:
Graduates of this program may transfer to Northern Illinois University's (NIU's)College of Health & Human Services to pursue the Bachelor of General Studies (B.G.S.). Students are advised to contact the NIU's College of Health and Human Services at (815) 753-1891 for further information.

Certificates Available:

- Basic Operations Firefighter
- Foundation of the Fire Service
- Fire Officer I
- Fire Officer II
- Emergency Medical Technician

Fire Science Core Requirements ..... 18 credit hours
All students, regardless of whether they are going to follow **Sequence A** or **Sequence B** must meet these core course requirements for the degree.

FRE 101	Introduction to Fire Protection	3
FRE 102	Fire Apparatus Engineer	3
FRE 103	Hazardous Materials Operations	3
FRE 118	Building Construction for Fire Protection	3
FRE 206	Management I	3
FRE 208	Fire Prevention Principles	3

Sequence A: Non-Internship Option
Intended for fire service personnel

FRE 207	Management II	3
FRE 216	Tactics and Strategy I	3
FRE 218	Instructor I	3

Electives: 12 credit hours of Fire Science

Sequence B: Internship Option
Intended for traditional college students

FRE 180	Essentials of Firefighting I	3
FRE 181	Essentials of Firefighting II	3
FRE 182	Essentials of Firefighting III	3
FRE 240	Fire Protection Internship	3

Electives: 9 credit hours of Fire Science

Fire Science Electives

FRE 106	Rescue Practices	3
FRE 112	Vehicle/Machinery Rescue Operations	3
FRE 210	Fire Investigation	3
FRE 217	Tactics and Strategy II	3
FRE 219	Instructor II	3
FRE 220	Management III	3
FRE 223	Emergency Medical Technician	9
FRE 225	Management IV	3
FRE 250	Special Topics in Fire Science (Repeatable up to 4 credits)	1-4

General Education ..... 25 credits
Required General Education Courses ..... 16 credits

ENG 101	Composition I	3
SPH 131	Fundamentals of Communication	3
MTH 100	Technical Mathematics or greater	3
PSY 170	General Psychology, or,	
SOC 190	Introduction to Sociology	3

Select one course with a lab from the Life Sciences or Physical Sciences area. ***Note:*** CHM 105 is strongly recommended 4

General Education Elective Courses ..... 9 credits

CIS 102	Introduction to Computer & Information Systems	3

Select 6 credits from the following area(s): 6
Humanities; Social Sciences; Mathematics; Physical Science; Life Science; Fitness, Wellness, and Sport; or English.

CERTIFICATES:

Basic Operations Firefighter/7501 ..... 21 credits

FRE 103	Hazardous Materials Operations	3
FRE 106	Rescue Practices	3
FRE 112	Vehicle/Machinery Rescue Operations	3
FRE 180	Essentials of Firefighting I	3
FRE 181	Essentials of Firefighting II	3
FRE 182	Essentials of Firefighting III	3
FRE 240	Fire Protection Internship	3

Foundation of the Fire Service/7521 ..... 12 credits

FRE 101	Introduction to Fire Protection	3
FRE 106	Rescue Practices	3
FRE 118	Building Construction for Fire Protection	3
FRE 208	Fire Prevention Principle	3

Fire Officer I/7531 ..... 15 credits

FRE 206	Management I	3
FRE 207	Management II	3
FRE 208	Fire Prevention Principles	3
FRE 216	Tactics and Strategy I	3
FRE 218	Instructor I	3

Fire Officer II/7523 ..... 12 credits

FRE 217	Tactics and Strategy II	3
FRE 219	Instructor II	3
FRE 220	Management III	3
FRE 225	Management IV	3

Emergency Medical Technician/7535 ..... 9 credits

FRE 223	Emergency Medical Technician	9

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Fitness, Wellness, & Sport

Fitness, Wellness, & Sport (FWS) #9000

Degree Conferred: Associate in Applied Science – 64 credits

Program Contact: Division of Social Sciences / Humanities / and Fitness, Wellness, and Sport, (815) 921-3317 RockValleyCollege.edu/FWS

The Fitness, Wellness, and Sport (FWS) degree in Exercise Science or Sport Management provides students with the educational and practical experiences needed to obtain employment in sport, recreation, exercise, or fitness organizations. All students learn about the psychological, sociological and historical aspects of sport and exercise. Students interested in the Exercise Science option complete coursework focusing on the scientific aspects of human performance. Students interested in the Sport Management option complete coursework focusing on the business, marketing, promotions, programming and facilities aspects of sport and exercise. The A.A.S. degree in FWS can be completed in as little as two years.

Work & Employment:
Students who pursue a degree in FWS will have the necessary knowledge and skills to obtain an entry-level position in sport, recreation, exercise, or fitness organizations. Exercise Science students may seek employment as personal fitness trainers, sports performance trainers, group exercise instructors, or fitness technicians. Sport Management students may seek employment in sport or recreation management, programming, facilities, marketing, sales or maintenance.

Transfer Opportunities:
Graduates of the program have the option to transfer their degree to various universities to pursue a bachelor degree in Kinesiology, Exercise/Sport Science, Sport Management, or other related fields in order to enhance their earnings potential. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the FWS program.

Practicum Experiences:
Students who pursue a degree in FWS will have the opportunity to complete a variety of job shadowing experiences with any of the following professional agencies – Rockford Riverhawks, Rockford Icehogs, Rockford Convention & Visitors Bureau, Rockford Park District, Rockford Boys & Girls Club, YMCA of Rock River Valley, and NorthPointe Wellness.

Certificates also Available:
The FWS certificates in Personal Training and Coaching Education provide students with the educational and practical experiences needed to prepare for certification as qualified personal trainers or athletic coaches. In many cases, either of these certifications may be required by an employer. Most of the courses required for the certificates also apply toward the FWS degree options, giving students several options to meet their educational and career goals. Each 24-credit hour certificate can be completed in as little as three consecutive semesters.

The Personal Training Certificate prepares students to successfully complete the National Strength & Conditioning Association's Certified Personal Trainer (NSCA-CPT) exam or other national personal training certifications. The RVC Personal Training certificate program is an approved NSCA-CPT Education Recognition Program, which provides students with discounted certification exam fees. Students will complete an internship training RVC employees under the direct supervision of FWS staff. Personal Training Certificate students may seek employment as a personal trainer in private health clubs, public fitness centers, college/university fitness centers or personal fitness studios.

The Coaching Education Certificate helps students obtain the American Sport Education Program's (ASEP) coaching certification. The ASEP coaching certification is required by the Illinois High School Association (IHSA) for high school varsity coaches who are not certified teachers. The RVC Coaching Education certificate program is an approved IHSA coaching education classroom certification program. Students will complete an internship with the athletic department of one of the following local organizations – Rockford School District 205, Harlem High School, Belvidere and Belvidere North High Schools, Rockford Boys & Girls Clubs, or an approved program of the student's choice. Coaching Education Certificate students may seek employment as an assistant or head coach at all levels between youth sports and high school varsity sports.

How to apply to the Program:
Apply online at RockValleyCollege.edu/FWS or contact the FWS department at (815) 921-3804, for more information.

General Education
Course Requirements ..... 15 credits

ENG 101	Composition I	3
ENG 103	Composition II	3
MTH 115 / MTH 120	General Education Math, or, College Algebra	3
SPH 131	Fundamentals of Communication	3
PSY 170	General Psychology	3

FWS Core
Course Requirements ..... 9 credits

FWS 220 / FWS 255	Intro Career Opportunities PE, or, Sociology of Sport	3
FWS 256	History of Physical Education & Sport	3
FWS 258	Sport & Exercise Psychology	3

Work-Based Learning
Course Requirements ..... 3 credits

FWS 270	FWS Practicum I	1-3
FWS 271	FWS Practicum II	1-3
FWS 272	FWS Practicum III	1-3

Fitness, Wellness, & Sport (continued)

SELECT COURSES FROM TRACK 1 OR TRACK 2:

Track 1: Exercise Science ..... 37 credits

- BIO 103 Introductory Life Science 3
- BIO 104 Introductory Life Science Laboratory 1
- CHM 120 General Chemistry I 4
- BIO 281 Human Anatomy and Physiology I 4
- BIO 282 Human Anatomy and Physiology II 4
- FWS 231 Contemporary Health Issues, or,
  FWS 235 Drug and Alcohol Education 3
- FWS 237 Nutrition for Optimal Living 3
- FWS 243 First Aid and General Safety, or,
  FWS 254 ASEP Sport First Aid and CPR 3
- FWS 260 Introduction to Exercise Science 3
- FWS 261 Nutrition for Fitness and Sport 3
- FWS 263 Nutrition, Exercise and Weight Control, or,
  FWS 265 Personal Fitness and Wellness 3

Select 3 credit hours from the following:

- FWS 110 Fitness Walking 1
- FWS 113 Low Impact Aerobics 1
- FWS 116 Step Aerobics 1
- FWS 119 Cardio Kickboxing 1
- FWS 121 Cardiovascular Fitness & Conditioning 1
- FWS 126 Beginning Weight Lifting 1
- FWS 127 Advanced Weight Lifting 2

Track 2: Sport Management ..... 37 credits

- CHM 105 Chemistry and Society 4
- ECO 110 Principles of Economics: Macro 3
- ECO 111 Principles of Economics: Micro 3
- BIO 103 Introductory Life Science 3
- BIO 104 Introductory Life Science Laboratory 1
- FWS 250 Introduction to Sport Management 3
- FWS 243 First Aid and General Safety, or,
  FWS 254 ASEP Sport First Aid and CPR 3
- BUS 101 Introduction to Business 3
- BUS 201 Business Law 3
- ATG 110 Financial Accounting 4
- ATG 111 Managerial Accounting 4

Select 3 credit hours from the following:

- FWS 110 Fitness Walking 1
- FWS 113 Low Impact Aerobics 1
- FWS 116 Step Aerobics 1
- FWS 119 Cardio Kickboxing 1
- FWS 121 Cardiovascular Fitness and Conditioning 1
- FWS 126 Beginning Weight Lifting 1
- FWS 127 Advanced Weight Lifting 2

CERTIFICATES:

Coaching Education 9010
(ASEP Coaching Principles) ..... 24 credits

- FWS 253 Introduction to Coaching (ASEP) 3
- FWS 254 ASEP First Aid and CPR 3
- FWS 255 Sociology of Sport 3
- FWS 258 Sport and Exercise Psychology 3
- FWS 261 Nutrition for Fitness and Sport 3
- FWS 235 Drug and Alcohol Education 3
- FWS 121 Cardiovascular Fitness and Conditioning, or,
  FWS 126 Beginning Weight Lifting 1
- FWS 127 Advanced Weight Lifting 2
- FWS 276 Athletic Coaching Internship 3

Personal Training 9020
(NSCA Recognized) ..... 24 credits

- FWS 266 Personal Training I - Concepts and Applications 3
- FWS 267 Personal Training II - Concepts and Applications 3
- FWS 243 First Aid and General Safety, or,
  FWS 254 ASEP Sport First Aid and CPR 3
- FWS 258 Sport and Exercise Psychology 3
- FWS 237 Nutrition for Optimal Living, or,
  FWS 261 Nutrition for Fitness and Sport 3
- FWS 263 Nutrition, Exercise and Weight Control, or,
  FWS 265 Personal Fitness and Wellness 3
- FWS 121 Cardiovascular Fitness and Conditioning, or,
  FWS 126 Beginning Weight Lifting 1
- FWS 127 Advanced Weight Lifting 2
- FWS 275 Personal Training Internship 3

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Fluid Power Technology

Fluid Power Technology (FLD) #7611

Certificate: 3 credits

Program Contact: Division of Technical Programs,
(815) 921-3000
RockValleyCollege.edu/FluidPower

Program Overview:
Graduates of this three-credit certificate program are prepared in the basic areas of hydraulics and pneumatics technology. Fluid power technicians are adept in the operation, maintenance, repair, and testing of fluid power equipment or components in factory settings.

Work & Employment:
Fluid Power opportunities exist in industry as well as in agriculture, aerospace, biomedical, and construction trades.

Fluid Power Certificate Requirements ..... 3 credits

FLD 100 Introduction to Fluid Power 3

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Graphic Arts Technology (GAT) Career Programs

Degree Conferred: Associate in Applied Science – 67 credits

Program Contact: Division of Technical Programs,
(815) 921-3000
RockValleyCollege.edu/GAT

Program Overview:
Students in the program are prepared for a variety of jobs in the printing and publishing industry and related fields of graphic arts. The graphic arts industry is a major employer in Illinois and according to the Printing Industry of Illinois/Indiana, in the metro Chicago area. The Graphic Arts Technology Program focuses on developing students with a well-rounded education encompassing both the creative and technical aspects of the industry with a focus on the digital production techniques that are changing the world of media delivery.

OPTION A:
Graphic Arts Technology #8200

Degree Conferred: Associate in Applied Science – 67 credits

Program Contact: Division of Technical Programs,
(815) 921-3000
RockValleyCollege.edu/GAT

Program Overview:
Practical learning experiences are offered in areas of design, layout and typography, production processes, variable data manipulation, estimating, and screen printing. Students gain in-depth experience working with text and images, page layout, specifying paper and ink selection, process color, and Pantone spot colors, job estimating and business practices, and offset press operation, as well as binding and finishing choices.

Work & Employment:
Program graduates secure jobs in desktop publishing, electronic imaging, press operations, sales and customer service. Skills taught can also be useful for professionals in marketing, and in-house communication. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the GAT program.

Graphic Arts Technology
Core Requirements ..... 28 credits

GAT 101	Introduction to Graphic Arts	4
GAT 110	Introduction to Photoshop	2
GAT 115	Introduction to Illustrator	2
GAT 178	Fundamentals of Desktop Publishing	3
GAT 190	Image Generation and Output	2
GAT 215	Advanced Illustrator	2
GAT 220	Advanced Photoshop	3
GAT 241	Intermediate Desktop Publishing	4
GAT 242	Advanced Desktop Publishing	3
GAT 255	Color System Management	3

General Education
Course Requirements ..... 16 credits

ENG 101	Composition I	3
MTH 115 MTH 120	General Education Mathematics, or, College Algebra	3
ENG 103 SPH 131	Composition II, or, Fundamentals of Communication	3
BIO 106 BIO 107	Environmental Science (3), and, Environmental Science Lab (1)	4
PSY 170 SOC 190	General Psychology, or, Introduction to Sociology	3

Option A: Graphic Arts Technology
Emphasis #8200 ..... 23 credits

GAT 180	Introduction to Press Operation	4
GAT 280	Press Operation II	4
GAT 260	Estimating-Graphic Arts Production	3
GAT 290	Finishing and Bindery Operations	3
GAT 168	Graphic Arts Internship, or, GAT Elective(s)	6
BUS 101 MKT 260	Introduction to Business, or, Principles of Marketing	3

CERTIFICATE:

Prepress/8201 ..... 23 credits

GAT 101	Introduction to Graphic Arts	4
GAT 110	Introduction to Photoshop	2
GAT 115	Introduction to Illustrator	2
GAT 178	Fundamentals of Desktop Publishing	3
GAT 220	Advanced Photoshop	3
GAT 241	Intermediate Desktop Publishing	4
GAT 242	Advanced Desktop Publishing	3
GAT 168	Graphic Arts Internship, or, GAT Elective	2

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

GAT Career Programs (continued)

OPTION B: Graphic Design #8225

Degree Conferred: Associate in Applied Science – 67 credits

Program Contact: Division of Technical Programs,
(815) 921-3000
RockValleyCollege.edu/GAT

Program Overview:
In the Graphic Design Program, you will study the concepts of drawing and design, typography, color theory, print processes, digital photography, illustration, page layout, marketing and advertising. In addition, you will learn to work within budget and time constraints, prepare electronic files for printing, choose appropriate printing and paper supplies, interpret and evaluate criticism of design and present a creative rationale to a client.

Work & Employment:
The Graphic Design Program prepares students for entry-level positions such as graphic designer, graphic artist or production artist. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the GAT program.

Graphic Design
Core Requirements ..... 28 credits

GAT 101	Introduction to Graphic Arts	4
GAT 110	Introduction to Photoshop	2
GAT 115	Introduction to Illustrator	2
GAT 178	Fundamentals of Desktop Publishing	3
GAT 190	Image Generation and Output	2
GAT 215	Advanced Illustrator	2
GAT 220	Advanced Photoshop	3
GAT 241	Intermediate Desktop Publishing	4
GAT 242	Advanced Desktop Publishing	3
GAT 255	Color System Management, or,	
ART 104	Color Theory	3

General Education
Course Requirements ..... 16 credits

ENG 101	Composition I	3
MTH 115	General Education Mathematics, or,	
MTH 120	College Algebra	3
ENG 103	Composition II, or,	
SPH 131	Fundamentals of Communication	3
BIO 106	Environmental Science (3), and,	
BIO 107	Environmental Science Lab (1)	4
PSY 170	General Psychology, or,	
SOC 190	Introduction to Sociology	3

Option B: Graphic Design
Emphasis #8225 ..... 23 credits

ART 101	Drawing and Composition I	3
ART 102	Drawing and Composition II	3
ART 103	Design I	3
BUS 101	Introduction to Business	3
GAT 150	Typography	2
GAT 168	Graphic Arts Internship, or,	
	GAT Elective, or,	
	ART Elective	3
MKT 260	Principles of Marketing	3
WEB 225	Digital Photography	3

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

OPTION C: Cross Media Production #8250

Degree Conferred: Associate in Applied Science – 67 credits

Program Contact: Division of Technical Programs,
(815) 921-3000
RockValleyCollege.edu/GAT

Program Overview:
The current trend in printing and publishing companies across the nation is to integrate the use of the one-dimensional medium of print with other multi-dimensional forms of communication. The Cross Media Production course of study involves not only developing graphics and publishing pieces, but also web and television design.

Work & Employment:
The Cross Media Production Program of study prepares students for entry-level jobs creating print, marketing, web, and special effects images for printing, marketing and film companies. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the GAT program.

Cross Media Production
Core Requirements ..... 28 credits

GAT 101	Introduction to Graphic Arts	4
GAT 110	Introduction to Photoshop	2
GAT 115	Introduction to Illustrator	2
GAT 178	Fundamentals of Desktop Publishing	3
GAT 190	Image Generation and Output	2
GAT 215	Advanced Illustrator	2
GAT 220	Advanced Photoshop	3
GAT 241	Intermediate Desktop Publishing	4
GAT 242	Advanced Desktop Publishing	3
GAT 255	Color System Management	3

General Education
Course Requirements ..... 16 credits

ENG 101	Composition I	3
MTH 115	General Education Mathematics, or,	
MTH 120	College Algebra	3
ENG 103	Composition II, or,	
SPH 131	Fundamentals of Communication	3
BIO 106	Environmental Science (3), and,	
BIO 107	Environmental Science Lab (1)	4
PSY 170	General Psychology, or,	
SOC 190	Introduction to Sociology	3

Option C: Cross Media Production
Emphasis #8250 ..... 23 credits

COM 156	Audio Production I	3
COM 157	Video Production I	3
WEB 101	Programming Related to the Internet	4
WEB 102	Advanced Programming Related to the Internet	4
WEB 225	Digital Photography	3
BUS 101	Introduction to Business	3
MKT 260	Principles of Marketing	3

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Manufacturing Engineering Technology

Manufacturing Engineering Technology (MET) #8800

Degree Conferred: Associate in Applied Science – 65 credits

Program Contact: Division of Engineering and Technology,
(815) 921-3101
RockValleyCollege.edu/MET

Program Overview:
Today's manufacturing is impacted by global competition forcing the need to accelerate product design and development. Graduates of this program are prepared for interdisciplinary careers in high-tech manufacturing and industrial technology. The areas of emphasis are modern design methods, production, and continuous improvement techniques. In addition to the areas of product design, 3-D CAD modeling, process planning, production scheduling, quality technician, and CNC programming and operation, a graduate of this degree may assume responsibilities in automated production, technical sales, and problem solving in many other areas of today's dynamic world of manufacturing.

Professional Certifications:
During completion of course requirements, students will be given an opportunity to test and become certified in the following:
- NIMS CNC Level 1 Certified
- Certified SolidWorks Associate (CSWA)
- Certified SolidWorks Professional Exam (CSWP)

Work & Employment:
In addition to the areas of product design, 3-D CAD modeling, process planning, production scheduling, quality technician, and CNC programming and operation, a graduate of this degree may assume responsibilities in automated production, technical sales, and problem solving in many other areas of today's dynamic world of manufacturing.

Important Information:
Graduates of this program are qualified and encouraged to pursue the Society of Manufacturing Engineers (SME) Certified Manufacturing Technologist (CMfgT) certification.

Transfer Opportunities:
Graduates may transfer with articulated credit to select universities. Students are advised to contact the institution to which they plan to transfer to ensure course transfer credit availability. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the MET program.

Manufacturing Engineering Technology
Core Course Requirements ..... 44 credits

EET 141	DC/AC Circuits & Electronics I	4
EET 254	Robotics and Automated Systems	3
MET 100	Introductory CAD and Print Reading	3
MET 105	Materials and Processes	3
MET 106	Metrology	3
MET 110	Manufacturing Processes I	3
MET 111	CNC Machine Setup / Operation / Programming	3
MET 133	Graphics / SolidWorks CAD I	3
MET 146	Hydraulics, Pneumatics, and PLCs	3
MET 162	Applied Physics	4
MET 217	Applied Statics	3
MET 218	Strength of Materials	3
MET 243	Continuous Improvement in Manufacturing	3
MET 249	Manufacturing Capstone Project	3

Electives: Select 6 credits from the following ..... 6 credits

MET 102	Methods of Statistical Process Controls (SPC)	3
MET 220	Mechanisms	3
MET 221	Machine Design	3
MET 226	CNC/CAM Operations I	3
MET 233	Graphics/SolidWorks CAD II	3
MET 237	Design of Experiments	4
MET 240	CNC/CAM Operations II	3
MET 247	Manufacturing Methods, Process Planning and Systems	3
WLD 100	Introduction to Welding	3

General Education
Course Requirements ..... 15 credits

ENG 101	Composition I	3
ENG 103 ENG 110	Composition II, or, Introductory Technical Writing	3
MTH 100 MTH 125 MTH 132	Technical Mathematics (5), or, Plane Trigonometry (3), or, College Algebra & Trigonometry (5)	3
MTH XXX, or, CHM XXX	Elective	3
SPH 131	Fundamentals of Communication	3

CERTIFICATES:

CAD #8810 ..... 15 credits

MET 100	Introductory CAD and Print Reading	3
MET 106	Metrology	3
MET 110	Manufacturing Processes I	3

Students should select 6 credits from the following:

MET 108	Computer Drafting using AutoCAD	3
MET 118	Intermediate AutoCAD – Production Drafting	3
MET 133	Graphics/SolidWorks CAD I	3
MET 233	Graphics/SolidWorks CAD II	3

CNC #8820 ..... 21 credits

MET 106	Metrology	3
MET 110	Manufacturing Processes I	3
MET 111	CNC Machine Setup/Operation/Programming	3
MET 100	Introductory CAD and Print Reading	3
MET 133	Graphics / SolidWorks CAD I	3
MET 226	CNC / CAM Operations I	3
MET 240	CNC / CAM Operations II	3

Basic Quality #8830 ..... 18 credits

MET 110	Manufacturing Processes I	3
MET 100	Introductory CAD and Print Reading	3
MET 102	Methods of Statistical Process Control (SPC)	3
MET 106	Metrology	3
MET 243	Continuous Improvement in Manufacturing	3
MET 237 MTH 220	Design of Experiments (4), or, Elements of Statistics (3)	3

Certified Manufacturing Associate #8840 ..... 12 credits

MET 110	Manufacturing Processes I	3
MET 100	Introductory CAD and Print Reading	3
MET 106	Metrology	3
MET 111	CNC Machine Setup/Operations/Programming	3

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Mass Communication Career Program

Media Production Specialist (COM) #3950

Certificate: 31 credits

Program Contact: Division of Mass Communication,
(815) 921-3360
RockValleyCollege.edu/MassCom

Program Overview:
Graduates of this 31-credit Certificate Program are prepared to produce a wide range of media projects including multi-format television programs, commercials, public service announcements, short films, and high-quality audio products.

Work & Employment:
Certificate graduates can secure jobs such as a Cinematographer, Director, Producer, Editor, Sound Engineer, Videographer, and a variety of other crew positions.

Transfer Opportunities:
Most of the courses in this certificate program have IAI transfer codes which will aid the student if they decide to pursue an Associate of Arts (A.A.) degree or a four-year degree. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the Media Production Specialist certificate program.

Media Production
Certificate Requirements ..... 31 Credits

COM 130	Introduction to Mass Communication	3
COM 140	Writing for Multi-Media	3
COM 156	Audio Production I	3
COM 157	Video Production I	3
COM 251	Film History and Appreciation	3
COM 252	International History of Film	3
COM 256	Advanced Audio Production	3
COM 257	Advanced Video Production	3
COM 260	Advanced Post Production	3
COM 296	Documentary Video Production, or,	
COM 297	Motion Picture Production	3
COM 298	Mass Communication Internship	1

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Nursing Programs

Associate Degree Nursing (ADN) #5400

Degree Conferred: Associate in Applied Science – 70 Credits

ADN Program Length: 4 semesters – core nursing

Limited Transfer & Limited Enrollment

Nursing Program Contact: (815) 921-3261
RockValleyCollege.edu/Nursing

Program Overview:
The Associate Degree Nursing (ADN) program prepares the graduates to work as entry-level registered professional nurses. Nurses are part of an interdisciplinary healthcare team who work together, each contributing knowledge and skills, unique to their discipline, to treat the patient as a whole. Students master the knowledge and skills specific to nursing over four semesters at RVC through classroom, laboratory and clinical experiences instructed by highly experienced and credentialed nursing faculty. Nursing students will then be prepared to take the NCLEX-RN exam, to receive the national credentials of the Registered Nurse (RN).

Work and Employment:
Graduates of the program are highly employable at all three Rockford hospitals as well as Long-Term Care facilities and community organizations. Our graduates have found employment in a variety of healthcare settings, including acute care facilities, long-term care facilities, ambulatory care, home care, hospice care, and community nursing. Specialty areas our graduates work in are: Emergency Rooms, Operating Rooms, Cardiac Catheterizations Labs, Endoscopy, Pediatrics, Mother/Baby, Cardiac Units, Orthopedic Units, ICU/PICU/NICU, General Medical-Surgical Units, Gerontology, and Transport Teams, along with other units.

RN-BSN Partnerships:
Currently, local hospitals are requiring new graduates to complete their BSN within 3-5 years after gaining employment in their facilities. RVC Nursing has formed partnerships with five RN-BSN Completion Programs to meet this need. New graduates can work at the local hospitals while completing their BSN and receive tuition reimbursement from their employers. RVC's RN-BSN Completion Program Partners are:

- Indiana-Wesleyan University (IWU) online program
- Northern Illinois University (NIU) hybrid program
- Olivet-Nazarene University (ONU) hybrid & online options
- St. Anthony College of Nursing (SACN) hybrid program
- University of IL in Chicago (UIC) online program

Information Sessions & Academic Advising:
Information Sessions are held three times a semester to explain the details of the RVC Nursing Program. These Information Sessions provide the most up-to-date information about the program and the admission process. Since the educational pathway does not end at RVC, it is mandatory for students to meet with an academic advisor to plan for a seamless transfer to a RN-BSN Completion Program which meets their needs.

Pre-Admission Tests:

- TEAS V Test and Writing Sample must be completed before the application due dates. Visit the Testing Center website for dates and details: RockValleyCollege.edu/ADNtest.
- Study resources can be found at: **ATITesting.com** and bookstores.

Admission Criteria:
Students must meet the following minimum criteria in order to be considered for admission into the Nursing Program:

- Active Nurse Aide Certificate (CNA) with no disqualifying convictions (background check)
- Enrolled in or completion of NRS 108 with a C or higher
- Overall 2.75 GPA in the following courses:
  - if student takes BIO 185 (within 5 years), *prerequisite CHM 110 or higher*; or if student takes BIO 281/282 (within 5 years), *prerequisite CHM 120 or CHM 210*
  - BIO 274 (within 5 years)
  - CHM 110 *or higher*
  - PSY 170
- TEAS V & Sample Writing completed at the RVC Testing Center
  - Overall Composite Score ..... Proficient Level or higher
  - Individual Category Scores ..... Basic Level or higher
  - Visit: RockValleyCollege.edu/ADNtest.

Admission Procedure:
All students are required to meet with an Academic Advisor to ensure a successful pathway to the nursing program. Once Admission Criteria has been met, one may submit an application to the Nursing Division office.

- Transfer students: ALL college transcripts must be submitted to the Records Department at the time of RVC enrollment
- Application Deadlines:
  - Fall Admissions: Applications are accepted between October 15 & February 15
  - Spring Admissions: Applications are accepted between May 15 & August 15

Program Standards & Expectations
The Nursing Program is responsible for providing our community with quality nurses who care for their clients safely. In order to become a quality, safe practicing nurse, students will be required to attend all classes and all clinicals. Clinical experiences require travel to facilities in the college region. Students are expected to provide their own transportation to clinical sites.
All nursing courses require a minimum of "C" 80% or higher to pass. Students who do not earn a "C" or higher will remediate by course repetition. Only one nursing course repletion is allowed to continue in the Nursing Program.

Fees:
Physical exam, immunizations/titers, Mantoux test, uniform, licensure application, fingerprint background check and NCLEX-RN exam fees are subject to change.

Licensure:
Students who successfully complete the Nursing Program are qualified to sit for the NCLEX-RN exam. Graduates who pass this national licensing exam will earn the title of Registered Nurse (RN).

- Successful completion of the Nursing Program
- Background Fingerprint ..... (fee)
- Application for NCLEX-RN ..... (fee)
- Registration for NCLEX-RN ..... (fee)
- RN Licensure ..... (fee)

Nursing Programs (continued)

Associate Degree Nursing (ADN) (continued)

General Education Course Requirements ..... 24 credits

Prerequisite Courses:
MUST complete BEFORE admission to the program

BIO 185	Foundations of Anatomy and Physiology	5
	(or 8 credits BIO 281/282)*	
BIO 274	Microbiology	4
PSY 170	General Psychology	3
NRS 108	Pathophysiology - Altered Health Concepts	3

Corequisite Courses:
HIGHLY recommended to complete BEFORE admission to the program

ENG 101	Composition I	3
FWS 237	Nutrition for Optimum Living	3

Elective Courses: Choose 6 credits from the following:
HIGHLY recommended to complete BEFORE admission the program

MTH 220	Elements of Statistics	3
PSY 270	Lifespan Developmental Psychology	3
SPH 131	Fundamentals of Communication	3
SOC 190	Introduction to Sociology	3

Core Nursing Course Requirements ..... 46 credits

First Semester Level I

NRS 107	Basic Principles of Pharmacology for Nursing	1
NRS 110	Core Concepts I - Professional Nursing	3
NRS 111	Core Concepts II - Professional Nursing	5

Second Semester Level II

NRS 207	Pharmacology for Nursing Care	2
NRS 221	Psychiatric Nursing / Clinical	5
NRS 223	Adult Health Nursing I / Clinical	5

Third Semester Level III

NRS 226	Family and Reproductive Health Nursing / Clinical	5
NRS 228	Child and Family Health Nursing / Clinical	5

Fourth Semester Level IV

NRS 231	Adult Health Nursing / Clinical II	5
NRS 233	Adult Health Nursing / Clinical III	5
NRS 225	Professional Nurse Role	2

LPN Bridge Program

Purpose:	The LPN Bridge program is for LPN's to pursue the A.A.S. in Nursing
Program Length:	3 semesters
Application Deadline:	October 15 (for spring admission)
Nursing Program Contact:	(815) 921-3261
For More Information:	RockValleyCollege.edu/Courses/Programs/Nursing/LPN.cfm

Program Overview:

The LPN Bridge Program is an articulation between the knowledge and skills that a Licensed Practical Nurse has acquired and the scope of practice of the Registered Nurse. This program is directed toward LPN's who are self-starters with excellent learning skills and current clinical knowledge.

Bridging into the Associate Degree Nursing (ADN) Program will prepare graduates to work as entry-level registered professional nurses (RN) in a variety of health care settings, including acute care facilities, long-term care facilities and many specialty health care facilities. As the health care industry needs change, 5 BSN partnerships have been formed to provide our students with seamless educational pathway options for obtaining their BSN.

The LPN Bridge program consists of three (3) semesters of core nursing courses. LPN's who meet admission criteria and successfully complete the LPN Bridge courses (one semester) will be eligible to continue in the ADN Program (two semesters). All nursing courses integrate theory, lab and clinical experiences which meet the standards of the Illinois Nurse Practice Act. Supervision by experienced and credentialed nursing faculty allows students to develop and practice safe, competent entry level nursing skills.

Eligibility is based upon prior satisfactory completion of a recognized practical nursing program and currently working as a LPN. ADN program requirements must be met to qualify for admission. It is recommended that as many general education credits as possible are completed before beginning the nursing curriculum. We require that you meet with an academic advisor to plan your pathway, to ensure a seamless transition from LPN to RN to BSN. Meeting minimum criteria for admission does not guarantee acceptance into the program. The Nursing Program reserves the right to make final decisions based upon the qualifications of the applicant pool for each admission cycle.

RN-BSN Partnerships:

Currently, local hospitals are requiring new graduates to complete their BSN within 3-5 years after gaining employment in their facilities. RVC Nursing has formed partnerships with five (5) RN-BSN Completion Programs to meet this need. New graduates can work at the local hospitals while completing their BSN and receive tuition reimbursement from their employers. RVC's RN-BSN Completion Program Partners are:

- Indiana-Wesleyan University (IWU) online program
- Northern Illinois University (NIU) hybrid program
- Olivet-Nazarene University (ONU) hybrid & online options
- St. Anthony College of Nursing (SACN) hybrid program
- University of IL in Chicago (UIC) online program

Nursing Programs (continued)

LPN Bridge Program (continued)

Information Sessions & Academic Advising:
LPN Bridge Information Sessions are held once a semester to explain the details of the LPN Bridge Program. These Information Sessions provide the most up to date information about the program and the admission process. Since the educational pathway does not end at RVC, it is mandatory for students to meet with an Academic Advisor to plan for a seamless transfer to a RN-BSN Completion Program which meets their needs.

Pre-Admission Tests

- TEAS V Test and Writing Sample must be completed before the application due dates.
  Visit the Testing Center website for dates and details: RockValleyCollege.edu/ADNtest.
- Study resources can be found at: ATItesting.com and bookstores.

Admission Criteria:
Students must meet the following minimum criteria in order to be considered for admission into the Nursing Program:

- Active LPN license with no disqualifying convictions
- Enrolled in or completion of NRS 108 with a C or higher
- Overall 2.75 GPA in the following courses:
  - if student takes BIO 185 (within 6 years), *prerequisite CHM 110 or higher*; or if student takes BIO 281/282 (within 6 years), *prerequisite CHM 120 or CHM 210*
  - BIO 274 (within 5 years)
  - CHM 110 *or higher*
  - PSY 170
  - Overall PNU program
- TEAS V & Sample Writing completed at the RVC Testing Center
  - Overall Composite Score: Proficient Level or higher
  - Individual Category Scores: Basic Level or higher
  - Visit: RockValleyCollege.edu/ADNtest

Admission Procedure:
All students are required to meet with an Academic Advisor to ensure a successful pathway to the Nursing Program. Once Admission Criteria has been met, one may submit an application to the Nursing Division Office (CLII-103).

- Transfer students: ALL college transcripts must be submitted to the Records Department at the time of RVC enrollment
- Application Deadlines:
  - Spring Admissions: Applications are accepted between August 15 & October 15

Program Standards & Expectations
The Nursing Program is responsible for providing our community with quality nurses who care for their clients safely. In order to become a quality, safe practicing nurse, students will be required to attend all classes and all clinicals. Clinical experiences require travel to facilities in the college region. Students are expected to provide their own transportation to clinical sites.

All nursing courses require a minimum of "C" 80% or higher to pass. Students who do not earn a "C" or higher will remediate by course repetition. Only one nursing course repletion is allowed to continue in the nursing program.

Fees:
Physical exam, immunizations/titers, Mantoux test, uniform, licensure application, and NCLEX-RN exam fees are subject to change.

Licensure:
Students who successfully complete the Nursing Program are qualified to sit for the NCLEX-RN exam. Graduates who pass this national licensing exam will earn the title of Registered Nurse (RN).

- Successful completion of the Nursing Program
- Application for NCLEX-RN ..... (fee)
- Registration for NCLEX-RN ..... (fee)
- RN Licensure ..... (fee)

General Education Course Requirements ..... 24 credits

Prerequisite Courses:
MUST complete BEFORE admission to the program

BIO 185	Foundations of Anatomy and Physiology (or 8 credits BIO 281/282)*	5
BIO 274	Microbiology	4
PSY 170	General Psychology	3
ENG 101	Composition I	3
FWS 237	Nutrition for Optimum Living	3
NRS 108	Pathophysiology - Altered Health Concepts	3

Elective Courses: Choose 6 credits from the following:
HIGHLY recommended to complete BEFORE admission the program

MTH 220	Elements of Statistics	3
PSY 270	Lifespan Developmental Psychology	3
SPH 131	Fundamentals of Communication	3
SOC 190	Introduction to Sociology	3

Core Nursing Course Requirements ..... 30 credits

First Semester Level I

NRS 207	Pharmacology for Nursing Care	2
NRS 210	Transition to ADN Nursing	3

Second Semester Level II

NRS 223	Adult Health Nursing I / Clinical	5
NRS 226	Family and Reproductive Health Nursing / Clinical	5

Third Semester Level III

NRS 231	Adult Health Nursing / Clinical II	5
NRS 233	Adult Health Nursing / Clinical III	5
NRS 225	Professional Nurse Role	2

Nursing Programs (continued)

Nursing Aide Certificate (CNA) #5411

Certificate: 7 credits

Program Length: 8 weeks, 14 weeks, or 16 weeks

Limited Transfer & Limited Enrollment

Nursing Program Contact: (815) 921-3264
RockValleyCollege.edu/CNA

Program Overview:
The Nursing Aide Certificate prepares students to move quickly into the health care workforce and enter a pathway to Allied Health and Nursing Careers. Graduates work as caregivers in all types of healthcare facilities and agencies. As a health team member, nursing assistants work under the supervision of nurses and provide routine care and basic nursing duties related to patient care. A flexible program of scheduled options includes morning, afternoon, or evening sessions. Mandatory health requirements must be met. Students who complete the program with a grade "C" or better are eligible for the Nurse Training Competency Evaluation. The program has a mandatory requirement of 80 hours of theory in the classroom and 40 hours of clinical experience in a long-term care facility. Mandatory classroom, skill labs, and clinical experiences will prepare students to take the state test required for certification as a Certified Nurse Assistant (CNA). This course is a prerequisite for an A.A.S. Degree in the Nursing Program.

Admission Criteria:
Enrollment into the course required the College Assessment Test administered by Rock Valley College Testing Center
1. ACT Scores (within last 3 years)
   - Reading: Minimum Score: 19
   - Math: Minimum Score: 18
   - If ACT scores are below the minimum score, Accuplacer Testing will be required
   - If the ACT was taken over 3 years ago, Accuplacer Testing will be required
2. Accuplacer Testing at the Testing Center (815) 921-2380
   - Reading: Minimum Score: 56, which is RDG 099 ready
   - Math: Minimum Score: 27, which is MTH 088 ready

Admission Procedure:
1. Enroll to Rock Valley College
2. Complete Placement Testing
3. Attend a Getting Started Session
3. Register for NAD 101
4. Attend the MANDATORY Admission Prerequisite Meeting
   - Letter will be mailed for this MANDATORY meeting
   - Held seven (7) weeks **PRIOR** to the start of the course
   - ***If you do not attend this, you will be DROPPED from the course***
5. Fingerprinting: Criminal Background Check
   - Information will be given at the **MANDATORY** Admission Prerequisite Meeting
   - Completed six (6) weeks **PRIOR** to the start of the course
   - Requires a valid Social Security Number & photo I.D.
   - Fee (subject to change)
   - It is possible that a student's criminal background will prevent participation in clinical practice, thereby preventing program admission.

Program Standards & Expectations
Students are required to attend all days of the Nursing Aide program. This is mandated by the Illinois Department of Public Health (IDPH). This includes attendance to orientation days, lectures, skills lab and clinical. All students are expected to provide their own transportation to clinical sites.

This Nursing Aide requires a "C", which is 76% to pass.

Fees:
The Nursing Aide Program provides clinical education at various long-term care facilities. The nursing aide program must adhere to these facilities' requirements. All admitted students will be required to provide the following at the expense of the student.
- Physical exam with NO lifting restrictions
- TB 2-Step
- Seasonal Flu Vaccine
- Other: uniform/shoes, criminal background check, textbooks, state exam

Program Completion:
Upon successful completion of the Nursing Aide program, students will sit for the Illinois Nurse Assistant/Aide Competency Examination to earn the credentials of CNA (Certified Nursing Assistant). This process has additional fees.
- Approximately $65

Nursing Aide Course Requirement

NAD 101 Nursing Aide ..... 7 credits

Office Professional

Office Professional (OFF) #2600

The Office Professional Program prepares students for work in office environments where knowledge of office procedures, software/hardware, administrative, and interpersonal skills are required to perform duties.

Graduates of this program exhibit strong communication, interpersonal skills; they are flexible and professional. In addition they possess excellent keyboarding, document formatting skills, and advanced software application skills. Graduates completing this program may be expected to supervise clerical staff.

Degree Conferred: Associate in Applied Science – 65 credits

Program Contact: Division of Business / Computers & Information Systems (CIS), (815) 921-3101 RockValleyCollege.edu/OfficePro

Program Overview:
The Office Professional Program allows students to focus on one of three areas of office administration: General office, medical office, or legal office professionals. Under the guidance of the Dean of Business/CIS or Academic Chair, students will be able to tailor a program that meets their unique needs. Students can also meet with an Academic Advisor to develop an academic plan.

General Office Professional:
The efficiency of any organization depends in part upon office professionals who are at the center of communications within the business. They process and transmit information to the staff and other organizations. Graduates of this Program will learn a wide range of skills using the latest computer technology.

Medical Office Professional:
Graduates of this Program are prepared for jobs in an insurance or healthcare office. Job responsibilities vary, and may include appointment scheduling, medical and general document preparation, meeting and event planning, handling receivables, and transcription.

Legal Office Professional:
Graduates of this Program typically perform administrative work in law firms. Areas in which they could become involved include bankruptcy, business and corporate litigation, criminal, divorce, and family law, wills, trusts, and estates, government law, trademarks and copyright law, personal injury and property damage, probate, real estate, and workers' compensation.

Work & Employment:
Graduates from the Program find jobs as administrative assistants, administrative secretaries, and office assistants in a variety of office settings.

OFFICE PROFESSIONAL
Business/CIS Division
Requirements ..... 38 credits

ATG 110	Financial Accounting	4
BUS 101	Introduction to Business	3
BUS 103	Business Mathematics	3
MGT 270	Principles of Management, (3), or,	
OFF 250	Health Care Revenue Cycle *(Required for Option C below)*	3
MKT 288	Customer Relations	3
OFF 115	File Management	2
OFF 118	Computer Keyboarding	1
OFF 121	Advanced Document Preparation and Design	3
OFF 222	Office Technology Practicum	3
OFF 226	Professional Development	3
OFF 231	Office Procedures	3
PCI 106	Microcomputer Applications / Windows	4
PCI 206	Advanced Microcomputer Applications / Windows	3

General Education
Course Requirements ..... 18 credits
Required Courses ..... 12 credits

ENG 101	Composition I	3
MGT 170	Business Communications	3
SPH 131	Fundamentals of Communication	3
CIS 102	Introduction to Computers & Information Systems	3

General Education Electives ..... 6 credits

Students must select courses with at least two different prefixes from the IAI General Education Core Curriculum (example: ART, BIO, ECO, SOC, etc.).

Choose appropriate option:

OPTION A: General Office Professional ..... 9 credits

PCI 200	Microcomputer Information Systems Practicum	3
PCI 226	Post Advanced Microcomputer Applications / Windows Based	3
Electives:	*Choose a course with ATG, BUS, MGT, MKT, OFF, PCI prefix for 3 credits*	3

OPTION B: Legal Office Professional ..... 9 credits

BUS 200	Legal Environment in Business	3
PCI 226	Post Advanced Microcomputer Applications / Windows Based	3
Electives:	*Choose a course with ATG, BUS, MGT, MKT, OFF, PCI prefix for 3 credits*	3

OPTION C: Medical Office Professional ..... 9 credits

HLT 110	Medical Terminology	2
OFF 144	Insurance Procedures / Medical Office	1
OFF 245	Introduction to Health Information Technology	3
BIO 171	Biology of Human Disease	3

Certificates for the Office Professional Program are continued on the next page.

Office Professional (continued)

CERTIFICATES:

Administrative Assistant/2601 ..... 34 credits

ATG 110	Financial Accounting	4
ATG 123	General Ledger Software Applications	2
BUS 101	Introduction to Business	3
BUS 103	Business Math	3
OFF 115	File Management	2
OFF 118	Computer Keyboarding	1
OFF 121	Advanced Document Preparation & Design	3
OFF 222	Office Technology Practicum	3
OFF 226	Professional Development	3
OFF 231	Office Procedures	3
PCI 106	Microcomputer Applications / Windows	4
PCI 206	Advanced Microcomputer Applications / Windows	3

Medical Coding/2605 ..... 15 credits

BIO 171	Biology of Human Disease	3
HLT 110	Medical Terminology	2
OFF 147	Coding	4
OFF 220	Advanced Coding	3
OFF 245	Intro to Health Information Technology	3

MOS/Word/2606 ..... 8 credits

PCI 106	Microcomputer Applications / Windows	4
PCI 206	Advanced Microcomputer Application / Windows	3
PCI 228	MOS Certification Preparation	1

MOS/Excel/2607 ..... 11 credits

PCI 106	Microcomputer Applications / Windows	4
PCI 206	Advanced Microcomputer Applications / Windows	3
PCI 226	Post Advanced Microcomputer Applications / Windows	3
PCI 228	MOS Certification Preparation	1

MOS/PowerPoint/2608 ..... 11 credits

PCI 106	Microcomputer Applications / Windows	4
PCI 206	Advanced Microcomputer Applications / Windows	3
PCI 226	Post Advanced Microcomputer Applications / Windows	3
PCI 228	MOS Certification Preparation	1

MOS/Access/2609 ..... 11 credits

PCI 106	Microcomputer Applications / Windows	4
PCI 206	Advanced Microcomputer Applications / Windows	3
PCI 226	Post Advanced Microcomputer Applications / Windows	3
PCI 228	MOS Certification Preparation	1

Office Program Electives:

OFF 131	Independent Study-Office Software Applications	1-6
OFF 293	Independent Study-Office Technology	1-3
OFF 294	Office Internship	1-3

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Phlebotomy Technician

Phlebotomy Technician #5605

Certificate: 11 credits

Program Length: Two semesters – 16 weeks & 8 weeks

Phlebotomy Program Contact: (815) 921-3208
RockValleyCollege.edu/Phlebotomy

Program Overview:

The phlebotomist is an integral part of the healthcare team. This professional will obtain blood specimens in a prompt and efficient manner. This individual must be proficiently trained to maintain high standards to ensure quality and safety in all aspects of specimen collection.

The Phlebotomy Technician Program involves teaching of techniques for the purpose of obtaining blood samples by venipuncture and dermal capillary procedures. Medical and Laboratory terminology, anatomy of the circulatory systems, interpersonal communication, laboratory safety, legal guidelines and professional skills will be covered. Upon successful completion of the two portions of this 24-week program, the student will have entry-level employment skills and meet all requirements to qualify for the American Society for Clinical Pathology (ASCP) examination.

The first portion of this Program will consist of 16 weeks of classroom lecture and lab skill demonstration. The second portion of this program will consist of eight weeks where the student will be assigned 120 hours at a medical practicum site to obtain practical experience and record 100 venipunctures and dermal punctures to meet the competency requirements.

Work & Employment:

This program prepares students for a career in Health Science Fields. The program is also beneficial for Nursing students, Certified Nursing Assistants, and Medical Assistants.

Upon successful completion of the program, the student will have the qualifications to work as an entry-level phlebotomist in a medical office, drawing center, or hospital setting.

Program Requirements:

- Students must achieve a minimum passing grade of "C" (2.0) in both lecture and laboratory portions of the Phlebotomy Technician (PLB 101) and Medical Terminology (HLT 110) in order to qualify for the clinical portion of this program.
- Diploma – must be a graduate of a recognized or accredited secondary school at the time of enrollment or has completed the G.E.D as required by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).
- Must be 18 years of age or older prior to being assigned to a clinical rotation.
- Current CPR Certification
- Physical exam (6 months), Proof of current vaccines, active titers, and negative two-step TB test results (forms in *RVC Student Phlebotomy Handbook*). Needed for admission to the program.
- Criminal Background and Drug Test: to be completed on Admission.
- Students must score at college-level reading or have completed RDG 099 with a C or higher to begin the program. Completion of one of the following Reading Tests: College Assessment Test or ACT Exam.
- Completed HLT 110 and MTH 086 with a grade of C or higher, or equivalent, or with the consent of the Phlebotomy Coordinator.
- Students are responsible for transportation to and from clinical affiliates.
- Students are responsible for securing their own NAVY BLUE medical scrub uniform and RVC Phlebotomy program patch according to program requirements for clinical rotations.
- Proof of liability insurance and medical insurance coverage.
- Completed and signed agreement forms (*RVC Student Phlebotomy Handbook*) prior to clinical rotation assignment.

Phlebotomy Course Requirements:

HLT 110	Medical Terminology	2 credits
PLB 101	Phlebotomy	5 credits
PLB 102	Phlebotomy – Clinical	4 credits

Respiratory Care Program

Respiratory Care Program (RSP) #5200

Degree Conferred: Associate in Applied Science – 71 credits

Limited Transferability

Program Contact: Division of Allied Health,
(815) 921-3200, or,
Program Chair,
(815) 921-3220
RockValleyCollege.edu/RespiratoryCare

Program Overview:
Respiratory Care is an allied health profession that focuses on the care of patients with cardiopulmonary (heart and lung) problems. The graduates of the Rock Valley College program are prepared to work locally and nationally. As highly skilled and knowledgeable Registered Respiratory Therapists (RRT), they are vital parts of the health care team. RRT's actively work to deliver direct patient care with physicians, nurses, and other allied health professionals. This includes patient assessment to help guide the treatment, care, education, and rehabilitation of the patient. RRT's also provide therapeutic treatment and diagnostic (test) measurement of the cardio-pulmonary system. RRT's are trained to blend human relations skills with technical and scientific knowledge in order to give the best direct patient care possible. Skills are mastered through classroom, laboratory, and clinical experiences.

Work & Employment:
Graduates of the program generally work in hospitals, assuming staff respiratory therapist positions or specializing in critical care or diagnostic areas. Other opportunities exist in the home care settings or through advancement into management or educational positions and rehab. A video titled "Life and Breath" can be viewed at: AARC.org/Career.

Transfer Opportunities:
Graduates of this program may transfer to Northern Illinois University's (NIU's) College of Health & Human Services to pursue the Bachelor of General Studies (B.G.S.). Students are advised to contact the NIU's College of Health and Human Services at (815) 753-1891 for further information.

Professional Credential & Program Accreditation:
Graduates of the program are eligible to sit for the credential of Registered Respiratory Therapist (RRT).

- This national exam is administered through the National Board for Respiratory Care (NBRC) at: NBRC.org.
- The program has continuing accreditation from the Commission on Accreditation of Respiratory Care (Co-ARC) at: CoARC.com.
- The professional organization for Respiratory Therapists is the American Association for Respiratory Care (AARC) at: AARC.org.
- The program belongs to a chapter of The Lambda Beta Society, a National Honor Society for the Profession of Respiratory Care.

Admission Policies:
To be considered for admission the applicant must:

1. Meet all college admission requirements.
2. Be a high school graduate or have completed the GED.
3. Chemistry requirement: One semester of college-level chemistry (with a lab). At RVC, it would be CHM 110 (recommended) or higher level.
4. BIO 185 – Anatomy and Physiology with minimum grade of "C". BIO 185 requires BIO 100 or BIO 103 and CHM 110 or higher, with minimum grades of "C", and must be taken within the last five years. (Other colleges' Biology course prerequisites may be different than RVC.) ***Note:*** BIO 281 - Human Anatomy and Physiology I and BIO 282 - Human Anatomy and Physiology II may be substituted for BIO 185. Both BIO 281 and BIO 282 must be completed.
5. HLT 110 - Medical Terminology with a minimum grade of "C".
6. Math requirement: Minimum Math requirement for the Respiratory Care program is MTH 092 - Beginning Algebra, at the college level. To meet biology and chemistry prerequisites at RVC, MTH 094 or a higher level math with a minimum grade of "C" is required. (Other colleges' Math course prerequisites may be different than RVC.)
7. Grade Point Average: A minimum GPA of 2.0 (on a 4.0 scale) is required of all college course work completed for college credit.

Admission Procedure:
Admission is selective and competitive. All required documents must be submitted to the Respiratory Care Program Office on or before January 20th to be reviewed for admission for the fall term. The Respiratory Care Program holds information sessions that cover prerequisites and other important admission information. Attendance of a session is required to receive an application packet for the program. For details on scheduling to attend an information session, call the Respiratory Care Program office at (815) 921-3200.

Criminal Background Check & Drug Testing:
Students will undergo a criminal background check and drug testing upon admission to the program. It is possible that a student's criminal background and/or a positive drug test will prevent participation in hospital clinical practice and program completion.

Standard for Progression in the Program:
Students are required to earn at least a minimum grade of "C" in each course in the Respiratory Care Program of study. Failure to do so will prevent a student from taking later courses in the program and from graduating.

Respiratory Care Program (continued)

Respiratory Care General Education Course Requirements ..... 20 credits

Prerequisite Courses – must complete BEFORE admission to the program:

BIO 274	Microbiology	4
HLT 110	Medical Terminology	2
ENG 101	Composition I	3
BIO 185	Foundations of Anatomy and Physiology	5

Select one for the speech requirement:

SPH 201	Interpersonal Communication (recommended), or,	
SPH 131	Fundamentals of Communication	3

Select one course below for the elective requirement:

BIO 171	Biology of Human Disease	3
FWS 237	Nutrition for Optimum Living	3
MGT 270	Principles of Management	3
PHL 153	Medical Ethics	3
PHL 256	Contemporary Moral Issues	3
PSY 170	General Psychology	3

Respiratory Care Course Requirements ..... 51 credits

RSP 111	Applied Sciences	3
RSP 112	Patient Assessment	3
RSP 113	Cardiopulmonary Anatomy and Physiology	3
RSP 114	Clinical Medicine	3
RSP 121	Respiratory Care Practices and Procedures I	5
RSP 122	Respiratory Care Practices and Procedures II	5
RSP 123	Respiratory Pharmacology	3
RSP 131	Clinical Practice I	2
RSP 132	Clinical Practice II	3
RSP 221	Respiratory Care Practices and Procedures III	3
RSP 222	Cardiopulmonary Testing and Rehabilitation	3
RSP 223	Respiratory Care Practices and Procedures IV	4
RSP 224	Neonatal and Pediatric Respiratory Care	2
RSP 225	Respiratory Care Seminar	3
RSP 231	Clinical Practice III	3
RSP 232	Clinical Practice IV	3

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Surgical Technology Certificate

Surgical Technology Program (SRG) #5405

Certificate: 40 credits

Program Contact: Division of Allied Health,
(815) 921-3200, or,
Program Coordinator,
(815) 921-3205, or,
RockValleyCollege.edu/SurgTech

Program Overview:
Surgical Technologists must have knowledge of the anatomy, instrumentation and procedures needed to prepare the operating room and equipment being used for surgery, are responsible for creating and maintaining the sterile environment in the operating room, and will also assist in other aspects of the surgical arena. The program features classroom, laboratory and clinical experiences that prepare students to assume an important role with surgical teams at entry-level.

Work & Employment:
Graduates are employed in hospital operating rooms, delivery rooms, emergency departments, ambulatory surgical centers, Medical travel agencies, physician offices, dental offices, central sterilizing departments, and also animal clinics and hospitals. With additional specialized education and training, graduates can become Surgical Assistants, Program Directors, Instructors, and Surgical/Medical Sales Representatives.

Professional Credential & Program Accreditation:
Graduates are eligible to become Certified Surgical Technologists (CST). Students will sit for the National Certification Examination through the National Board of Surgical Technology and Surgical Assisting (NBSTSA) prior to graduation. The Program is governed by the Association of Surgical Technology (AST) and is fully accredited by the Commission on Accreditation of Allied Health Programs (CAAHEP).

Admission to the Program:
Admission is selective and competitive. The Grade Point Average (GPA) from any College where a (prerequisite) course is used to fulfill the Program requirements will be combined and averaged for an Overall GPA. The Overall GPA and strength in the sciences is of great consideration in the selection process. Healthcare experience considered but is not required.
Core Curriculum developed by the Association of Surgical Technology (AST/CCST 6th edition).

Admissions Policies *(enrollment capacity 20)*

Requirements for application and admission:

1. A graduate of a recognized or accredited secondary school at the time of enrollment or complete the GED as required by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

2. Admission to Rock Valley College according to college policies governing full-time students.

3. **Biology/Chemistry requirement:** One semester of college level chemistry (with a lab). At RVC it would be CHM 110 (recommended) or a higher level.
   BIO 185 requires BIO 100 or BIO 103, and CHM 110 or higher CHM, with a C or better to have been taken within the last five (5) years.
   BIO 274 requires BIO 100, 103, 150, 201, or 205 and CHM 110 or higher, with a C or better to have been taken within the last five (5) years.
   Note: other colleges' Biology course prerequisites may be different than RVC.

4. **Math requirement:** Minimum Math requirement for the Surgical Technology Program is MTH 092 - Beginning Algebra Part II.
   To meet the biology and chemistry prerequisites at RVC – MTH 094-Intermediate Algebra Part II or higher level math, with a minimum grade of "C," is required. ***Note:*** other colleges' Math course prerequisites may be different than RVC.

5. **Grade Point Average:** A minimum GPA of 2.0 (on a 4.0 scale) is required of all college course work completed for college credit. Program admission is limited, therefore admission is selective and very competitive.

6. Concurrent hospital clinical practice also necessitates that students meet the following requirements:
   a. Be in good health as certified by a physician licensed to practice medicine in all its branches, and complete in full the medical examination and immunization form provided.
   b. Possibly submit to further laboratory tests as requested.
   c. Have current Adult, Infant, and Child CPR certification.
   d. Have personal health insurance.
   e. Meet the Essential Abilities Standards of Performance

7. Students must be admitted to Rock Valley College and math and chemistry must be completed to be reviewed for admission to the program. All General Education Course Requirements must be completed, with a minimum grade of "C", before enrollment in the Surgical Technology (SRG) Program courses

8. Qualified applicants who are residents of Rock Valley College District 511 or who reside in a district that has a cooperative agreement with Rock Valley College will be admitted first. Out-of-district applicants will be admitted only if the Surgical Technology class has not been filled and all qualified in-district or cooperating community college applicants have been accepted.

Surgical Technology Certificate (continued)

Admissions Procedures:

1. The following records must be sent directly to the Allied Health division office:
   a. High school transcripts or GED scores.
   b. Previous college transcripts (other than RVC).
2. Applicants are required to complete a separate application for admission to the Surgical Technology Program, hereafter referred to as the Surgical Technology application.
3. The Surgical Technology application must be filed before April 15th, prior to the fall term a student hopes to enter the program. Only completed applications are processed. Completed applications include:
   a. Chemistry grade(s)
   b. Math grade(s)
4. Students will be notified of their admission status prior to June 15th.
5. Applicants not selected one year are individually responsible for reactivating and updating their application in subsequent years.

Criminal Background Check & Drug Testing:

Students will undergo a criminal background check and drug testing upon admission to the program. It is possible that a student's criminal background and/or a positive drug test will prevent participation in hospital clinical practice and program completion.

Standard for Progression in the Program:

Students are required to earn at least a minimum grade of "C" in each theory/clinical course, along with the AST standard of 120 documented cases verified as completed, with a total of 80 First Scrub cases. Failure to do so will prevent a student from graduating. *(See table below.)*

Surgical Technology Course Requirements ..... 26 credits

SRG 101	Surgical Technology I Central Service Principles and Practice	4
SRG 102	Surgical Technology II Principles and Practice	6
SRG 103	Surgical Technology III Principles and Practice Specialty	5
SRG 104	Surgical Technology IV Principles and Practice Specialty	5
SRG 105	Surgical Technology V Internship	4
SRG 106	Surgical Technology Seminar	2

General Education Course Requirements ..... 14 credits

BIO 185	Foundations of Anatomy and Physiology	5
BIO 274	Microbiology	4
ENG 101	Composition I	3
HLT 110	Medical Terminology	2

Comparable BIO, ENG, and HLT courses may be taken at cooperative community colleges.

Cooperative community colleges are: Highland Community College, Kishwaukee College, and Sauk Valley College.

A prerequisite or corequisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

SURGICAL ROTATION CASE REQUIREMENTS (once Student is in the program)

Surgical Specialty	Total # of Cases required	Minimum # of First Scrub Cases required	Maximum # of Second Scrub Cases that can be applied towards 120 cases
General Surgery	30	20	10
Surgical Specialties • Cardiothoracic • ENT • Eye • GU • Neuro • Ob-Gyn • Oral/Maxillofacial • Orthopedics • Peripheral Vascular • Plastics • Procurement/ • Transplant	90	60	30
Diagnostic Endoscopy • Bronchoscopy • Colonoscopy • Cystoscopy • EGD • ERCP • Esophagoscopy • Laryngoscopy • Panendoscopy • Sinoscopy • Ureteroscopy			10 diagnostic endoscopy cases may be applied toward the second scrub cases.
Labor & Delivery			5 vaginal delivery cases may be applied toward the second scrub cases.
Totals	**120**	**80**	**40**

Sustainable Energy Systems

Sustainable Energy Systems (SES) #8600

Degree Conferred: Associate in Applied Science – 66 credits

Program Contact: Division of Business / Computers & Information Systems (CIS) / and Engineering and Technology (EAT), (815) 921-3101 RockValleyCollege.edu/SES

Program Overview:
Graduates of the Sustainable Energy Systems (SES) Program have a broad understanding of energy efficiency and conservation, comprehensive energy and electrical-load audits, alternative electrical energy generation using photovoltaics, wind turbines, fuel cells, and microhydro. They also understand how active and passive solar technology (including geothermal systems) can be used to produce air conditioning via heat pumps and radiant floor heating. They comprehend solar hot water heating systems as well as well as tankless hot water heating. Graduates understand the importance of codes, standards, and permits as well as fees, financing, and payback. They also have the necessary skills to use electronic test equipment to make measurements, understand electrical schematics and blueprints, analyze electronic circuits and understand fundamental design concepts. The graduates are ready to work in alternative energy product and service development, testing and alternative energy product certifications with an emphasis on the electrical and electronic systems.
The SES program helps prepare the student to take renewable energy certification examinations and others offered by the Electronics Technicians Association, International. See the SES Academic Chair for more information.

Work & Employment:
Successful graduates secure positions as sustainable energy system designers and consultants, sales and service professionals, energy auditors, or as part of a renewable energy systems integration team. Areas of employment as electronics technicians to support a wide variety of manufacturing and service needs are also included in career selections.

Hands-On Learning:
EET (SES) classes included sustainable energy equipment and systems to give students a more complete grasp of concepts. Field trip opportunities are included to look at installed systems. Internships to obtain actual working experience are required. EET classes include a hands-on laboratory component taught by instructors with industrial experience. You will learn how to use electronic test equipment like oscilloscopes, function generators, and digital multimeters.

Transfer Opportunities:
SES graduates have the option to pursue a baccalaureate degree from Northern Illinois University and other select universities. Students are advised to contact the institution to which they plan to transfer to assess course transfer credit availability. Students should also consult with an Academic Advisor, the Dean, or the Academic Chair of the SES program.

Certificates Available:
- Sustainable Energy System Certificate
- Basic Sustainable Energy Systems

Sustainable Energy Systems
Core Requirements ..... 50 Credits

SES Core Requirements ..... 47 Credits

Note: a grade of C or better is required in the core requirements and technical electives.

EET 105	Introduction to Sustainable Energy Concepts	3
EET 107	Introduction to Codes and Standards	3
EET 135	Digital Electronics	4
EET 141	DC/AC Circuits and Electronics I	4
EET 142	DC/AC Circuits and Electronics II	4
EET 168	Electronic Engineering Technology Internship	2
EET 190	Sustainable Electrical Energy Generation	3
EET 240	DC/AC Circuits and Electronics III	4
EET 251	Microcontrollers and Interfacing	4
EET 277	Geothermal, Solar Heating and Lighting	3
EET 282	EET Capstone Project	3
EET 298	EET Seminar	3
MET 100	Introductory CAD and Print Reading	3
MET 162	Applied Physics	4

Electives: Select 3 credits from the following ..... 3 Credits

EET 168	Electronic Engineering Technology Internship	1-3
EET 219	Electric Motors, Controls, and Variable Speed Drives	3
EET 239	Programmable Logic Controllers (PLCs)	3
EET 242	Sensors, Transducers, and Signal Conditioning	3
EET 245	Control Systems	3
EET 261	Advanced Microcontrollers	3
EET 275	Wireless Electronics	3
EET 285	Introduction to Digital Signal Processing	3
EET 299	Special Topics in Electronic Engineering Technology	1-6

General Education
Course Requirements ..... 16 credits

ENG 101	Composition I	3
ENG 110	Technical Writing, or,	
SPH 131	Fundamentals of Communication	3
MTH 125	Plane Trigonometry (3), or,	
MTH 132	College Algebra and Trigonometry (5), or,	
MTH 100	Technical Mathematics (5)	3-5

General Education
Science Requirement:
Select 4 credits from the following:

CHM 105	Chemistry and Society (4), or,	
CHM 120	General Chemistry I, or,	4
Or (recommended):		
BIO 106	Environmental Science (3), and,	
BIO 107	Environmental Science Laboratory (1)	4

General Education Elective:
Select 3 credits from the IAI General Education Core Curriculum (GECC)
Example: ART, ECO, ENG, SOC, etc. 3

Sustainable Energy Systems (continued)

CERTIFICATES:

Sustainable Energy Systems Certificate SES/8601 ..... 50 credits

EET 105	Introduction to Sustainable Energy	3
EET 107	Introduction to Codes and Standards	3
EET 135	Digital Electronics	4
EET 141	DC/AC Circuits and Electronics I	4
EET 142	DC/AC Circuits and Electronics II	4
EET 168	Electronic Engineering Technology Internship	2
EET 190	Sustainable Electrical Energy Generation	3
EET 240	DC/AC Circuits and Electronics III	4
EET 251	Microcontrollers and Interfacing	4
EET 277	Geothermal, Solar Heating and Lighting	3
EET 282	EET Capstone Project	3
EET 298	EET Seminar	3
EET	Elective	3
MET 100	Introductory CAD and Print Reading	3
MET 162	Applied Physics	4

Basic Sustainable Energy Systems Certificate SES/8614 ..... 28 credits

EET 105	Introduction to Sustainable Energy	3
EET 107	Introduction to Codes and Standards	3
EET 135	Digital Electronics	4
EET 141	DC/AC Circuits and Electronics I	4
EET 142	DC/AC Circuits and Electronics II	4
EET 190	Sustainable Electrical Energy Generation	3
MET 100	Introductory CAD and Print Reading	3
MET 162	Applied Physics	4

Second A.A.S. Degree Requirements for either the EET or SES A.A.S Degrees (15 credits):

The course requirements for the Electronic Engineering Technology and the Sustainable Energy Science degree programs are very similar. Therefore, obtaining a second degree is an exciting option for many graduates. Specifically, a graduate of the EET program may desire to obtain a second degree in SES.
Fundamentally, a minimum of 15 additional credits must be taken.

A graduate of the EET program (8400) who desires to also receive an SES program degree (8600) must take:

EET 105	Introduction to Sustainable Energy Concepts *(could have been used as an EET elective previously)*	3
Select four (4) credits from the following Sciences Courses:		
CHM 105	Chemistry and Society (4), or,	
CHM 120	General Chemistry I *(could have been used as an EET elective previously)*, or,	4
Or (recommended):		
BIO 106	Environmental Science (3), and,	
BIO 107	Environmental Science Laboratory (1) (could have been used as an EET elective previously)	4
EET 107	Introduction to Codes and Standards	3
EET 168	Electronic Engineering Technology Internship	2
EET 190	Sustainable Electrical Energy Generation	3
EET 277	Geothermal, Solar Heating & Lighting	3

(This means an EET graduate must take between 15 to 18 additional credits to receive a second degree in SES.)

A graduate of the SES program (8600) who desires to also receive an EET program degree (8400) must take:

EET 125	Electronic Fabrications Skills	2
MET 133	Graphics/SolidWorks CAD I	3
MET 146	Hydraulics, Pneumatics and PLCs	3
EET 254	Robotics & Automated Systems	3
EET	Elective	4

(This means an SES graduate must take 15 additional credits to receive a second degree in EET.)

Students are advised to contact the Division of Engineering and Technology, (815) 921-3101 for more information about obtaining a second degree in this field.

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Web Programming & Design

Web Programming & Design (WEB) #3900

Degree Conferred: Associate in Applied Science – 64 Credits

Program Contact: Division of Business / Computers & Information Systems, (815) 921-3101 RockValleyCollege.edu/WebDesign

The Business/Computers & Information Systems Division also offers degrees in programming and networking. For information on these A.A.S. degrees, please see the Computer and Information Systems and the Personal Computer Technical Specialist programs elsewhere in this catalog.

Program Overview:
Graduates of this program are prepared for a career in Website programming and support. Thus, students will not only be able to design Web pages, but apply technical specifications to bring them to life.

Work & Employment:
Graduates of this program often work as Web programmers, Web programmer assistants, Web server systems administrators, Web designers, or Web media developers. Students should also consult with an Academic Advisor, the Dean, or Academic Chair of the Web program.

Industry Certifications:
Students obtaining this degree will be better prepared to take the following certifications: WOW, ZEND, PHP Certification, Magento Certification, and the W3C certification.

CIS Division Course Requirements ..... 40 credits

ATG 110	Financial Accounting	4
BUS 101	Introduction to Business	3
CIS 102	Introduction to Computers & Information Systems	3
CIS 276	Introduction to C/C++ Programming	4
CIS 254	Database Programming	4
PCT 110	Network Essentials	3
WEB 101	Programming Related to the Internet	4
WEB 102	Advanced Programming Related to the Internet	4
WEB 111	Introduction to Multimedia	3
WEB 233	Web Programming Using Client-Side Scripting	4
WEB 234 WEB 235	PHP Programming, or, Web Programming Using Server-Side Scripting	4

Electives ..... 9 credits

With the approval of the CIS Academic Chair, select from the following courses:

CIS 180	Introduction to Visual Basic Programming	4
CIS 240	Introduction to Java Programming	4
CIS 245	Programming Android for Mobile Devices	4
CIS 280	Programming iOS Apple Mobile Devices	4
GAT 110	Introduction to Photoshop	2
GAT 115	Introduction to Illustrator	2
WEB 225	Digital Photography	3
WEB 231	Web Design and Production	4
WEB 234	PHP Programming	4
WEB 235	Web Programming Using Server-Side Scripting	4
WEB 290	Special Topics in Web Program & Design	1-6
WEB 291	Internship/Field Experience	1-6

General Education Course Requirements ..... 15 credits

ENG 101	Composition I	3
ENG 103 MGT 170 ENG 110	Composition II, or, Business Communications, or, Introductory Technical Writing	3
SPH 131	Fundamentals of Communication	3
MTH 120 MTH 160 MTH 220	College Algebra, or, Topics from Finite Mathematics, or, Elements of Statistics	3
BUS 170 PSY 170 SOC 190	Introduction to Organizational Behavior, or, General Psychology, or, Introduction to Sociology	3

CERTIFICATES

Web Development Certificate/3901 ..... 16 credits

WEB 101	Programming Related to the Internet	4
WEB 102	Advanced Programming Related to the Internet	4
CIS 254	Database Programming	4
WEB 234 WEB 235	PHP Programming, or, Web Programming Using Server-Side Scripting	4

Web Design Certificate/3902 ..... 14 credits

WEB 101	Programming Related to the Internet	4
WEB 102	Advanced Programming Related to the Internet	4
WEB 111	Introduction to Multimedia	3
WEB 225	Digital Photography	3

A prerequisite or corequisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

Welding Certificates

Assembly Line Welder Certificate (WLD) #8210

Certificate: 12 credits

Program Contact: Division of Technical Programs,
(815) 921-3000
RockValleyCollege.edu/Welding

Program Overview:
The Assembly Line Welder Certificate will provide students with instruction in each of the most common welding processes currently used in the industry (e.g., Arc / Stick, Shielded Metal Arc Welding; MIG, metal inert gas; TIG, tungsten inert gas; and Oxyfuel, gas welding and cutting), as well as instruction in welding safety. Students who complete the certificate will be prepared for entry level positions within the manufacturing industry as an assembly line welder.

Work & Employment:
Upon completion, the certificate will provide a basic credential to students for employment into the manufacturing welding field as an assembly line welder.

*Students are required to furnish their own personal protective equipment.

Assembly Line Welder Requirements/8210 ..... 12 credits

WLD 100	Introduction to Welding	3
WLD 153	Arc Welding Flat	3
WLD 155	Arc Welding Horizontal	3
WLD 157	MIG Welding	3

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Welding Certificate (WLD) #8218

Certificate: 24 credits

Program Contact: Division of Technical Programs,
(815) 921-3000
RockValleyCollege.edu/Welding

Program Overview:
Graduates are adept in the various welding types, including gas, shielded metal arc (STICK), metal inert gas (MIG), flux core, and tungsten inert gas (TIG) welding. Welding certification can be acquired in one or more welding processes.

Work & Employment:
In today's metalworking industry, welding is rapidly becoming the most commonly used method of joining metals. Opportunities exist in the steel fabrication, plumbing and pipefitting, construction, automotive, nuclear, and sheet metal industries, as well as in facilities maintenance.

*Students are required to furnish their own personal protective equipment.

Welding Certificate Requirements ..... 24 credits

WLD 100	Introduction to Welding	3
WLD 150	Blueprint Reading for Welders	3
WLD 152	Arithmetic for Welders	3
WLD 153	Arc Welding: Flat	3
WLD 154	Arc Welding: Vertical	3
WLD 155	Arc Welding: Horizontal	3
WLD 156	Arc Welding: Overhead	3

Select one course from the following:

WLD 157	M.I.G. Welding	3
WLD 158	T.I.G. Welding	3
WLD 159	Arc Welding: Bellhole / Pipe	3
WLD 161	Arc Welding: Arkansas / Pipe	3
WLD 175	Certification Qualification	3
WLD 181	Special Topics Welding	1-3
WLD 182	Internship in Welding Technology	1-6
WLD 180	Independent Study in Welding	1-5

Apprenticeship Programs

Electrician Apprenticeship (ELC) #9900

Degree Conferred: Associate in Applied Science – 64 credits

Transferable Degree

Program Contact: Division of Technical Programs,
(815) 921-3003
RockValleyCollege.edu/Electrician

Program Overview:
The Electrician Apprentice (ELC) Program consists of a series of technical core courses covering the required classroom-related instruction for people who wish to become journeyman electrical workers. The program requires a minimum of 800 hours of related instruction and 8,000 hours of on-the-job training.

Work & Employment:
Those who successfully complete the Electrician Apprentice Program are employed as residential or commercial wiremen, linemen, and/or advanced journeypersons.

Cooperative Partners Involved:
Both the National Electrical Contractors Association and the International Brotherhood of Electrical Workers recognize, sponsor, and support this program to provide the highly-skilled workforce necessary to meet customer needs and ensure job satisfaction for electrical workers.

Applying for the Program:
Students interested in applying for the Program need to go through a selection process established by the JATC Local Union 364. For more information, call the Technical Programs Office at (815) 921-3003.

Electrician Apprenticeship Certificate
Course Requirements ..... 49 credits

ELC 120	Introduction to Apprenticeship	4
ELC 121	Electrical Theory and Code	4
ELC 122	Lighting and Transformers	4
ELC 123	Motors and Wiring Systems	4
ELC 125	Safe Electrical Work Practices	1
ELC 140	The Labor Movement 1865-1980	1
ELC 141	The Labor Movement 1975-Present	1
ELC 142	Labor Movement, Present & Future	1
ELC 243	Alternating Current	4
ELC 244	Electronics Circuitry	4
ELC 245	Motor Control	4
ELC 246	Power Controls	4
ELC 247	Advanced Studies I	4
ELC 248	Advanced Studies II	4
ELC 249	Electrician Internship I	1
WLD 180	Independent Study in Welding	2
WLD 181	Special Topics In Welding	2

General Education
Course Requirements ..... 15 credits

ENG 101	Composition I	3
ENG 103 ENG 110	Composition II, or, Introductory Technical Writing	3
SPH 131	Fundamentals of Communication	3
BUS 170	Introduction to Organizational Behavior	3
ELC 130	OSHA 30 and Disaster Response	3

CERTIFICATE:

Electrician Apprenticeship/9913
Course Requirements ..... 42 credits

ELC 120	Introduction to Apprenticeship	4
ELC 121	Electrical Theory and Code	4
ELC 122	Lighting and Transformers	4
ELC 123	Motors and Wiring Systems	4
ELC 243	Alternating Current	4
ELC 244	Electronics Circuitry	4
ELC 245	Motor Control	4
ELC 246	Power Controls	4
ELC 247	Advanced Studies I	4
ELC 248	Advanced Studies II	4
WLD 180	Independent Study in Welding	2

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Sheet Metal Apprenticeship (APT) #9918

Degree Conferred: Apprenticeship – 40 credits
RockValleyCollege.edu/Academics/ Tech

Program Contact: Division of Technical Programs,
(815) 921-3003
RockValleyCollege.edu/Academics/ Tech

Apprentices in this Program are trained to assemble, install, and repair sheet metal products. They work on air conditioning, heating, and ventilation systems. Those trained in this field learn to read job orders and blueprints. From that, they are able to select the correct metal and shape it over the proper form using solder and welding techniques. This is a five-year program.

Applying for the Program:
Students interested in applying for the Program need to go through a selection process established by the JATC Local Union 219.

For more information, call the Technical Programs Office at (815) 921-3003.

APT 180	Introduction to Apprenticeship	4
APT 181	Mathematics and Processes I	4
APT 182	Mathematics and Processes II	4
APT 183	Mathematics and Processes III	4
APT 280	Blueprints and Patterns I	4
APT 281	Blueprints and Patterns II	4
APT 282	Advanced Systems I	4
APT 283	Advanced Systems II	4
APT 284	Advanced Studies I	4
APT 285	Advanced Studies II	4

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

Apprenticeship Programs (continued)

Tool & Die / Precision Machinist Apprenticeship Certificate #9919

Degree Conferred: Certificate – 30 credits

Program Contact: Division of Technical Programs,
(815) 921-3003
RockValleyCollege.edu/Machinist

The tool and die maker/precision machinist apprentice makes the devices used by machinists for mass-produced parts. Tool and die makers are among the most skilled of all machinery workers. Apprentices learn to make the gauges and measuring devices in manufacturing precision metal parts. They are also taught to construct metal forms used to shape metal stamping and forging operations. This is a four-year program.

Year One

APT 190	Mathematics for Machine Technology	3
APT 194	Blueprint Interpretation	3

Year Two

APT 289	Metal Cutting Applications	3
MET 106	Metrology	3
MET 105	Materials and Processes	3

Year Three

MET 111	CNC Machine Setup/Operation/Programming	3
MET 226	CNC/CAM Operations I	3

Year Four

MET 108	Computer Drafting Using AutoCAD	3
WLD 100	Introduction to Welding	3
MET 133	Graphics, SolidWorks™ and CAD I	3

A prerequisite or corequisite may be required for some courses.
Refer to the course descriptions section in this catalog for more information.

APPRENTICESHIP ORGANIZATIONS

Electricians
Rockford Area Electricians Joint Apprenticeship Committee
Attn: Patrick Tomlin
619 South Rock Drive
Rockford, IL 61102
(815) 969-8484

Sheet Metal
Rockford Area Sheet Metal
Joint Apprenticeship Committee
Attn: Jeff Scanlan
3316 Publishers Drive
Rockford, IL 61109
(815) 874-6641
Fax: (815) 874-5182

Tool and Die/Precision Machinist
Rock River Valley Tooling and Machining Association
Attn: Don Williams
P.O. Box 5029
Rockford, IL 61125
(815) 978-3698
Fax: (815) 516-8431

For further information contact:

U.S. Department of Labor Employment and Training Administration Bureau of Apprenticeship and Training
Attn: Ms. Ronda Kliman, Area Representative
308 W. State Street, Suite 403
Rockford, IL 61101
(815) 987-4253
Fax: (815) 987-4214

Rock Valley College
Attn: Rich Gocken,
Dean of Technical Programs, Allied Health, and Trades
4151 Samuelson Road
Rockford, IL 61109
(815) 921-3003
Fax: (815) 921-3029

Cooperative Educational Agreements

Rock Valley College participates in a cooperating agreement with several Illinois community colleges. This agreement is regulated by the ICCB and is designed to provide expanded educational opportunities. For A.A.S. degrees and certificate programs not offered by Rock Valley College, students may obtain a cooperative agreement to attend another Illinois community college that offers the program. The cooperative agreement does not guarantee admission, rather it permits out-of-district fees to be waived, allowing the student to obtain the A.A.S. degree or certificate for in-district rates. The cooperating college will issue all degrees or certificates for successful completion of the individual program.

Prerequisite course requirements may be taken at the home institution or at the receiving institution. There may be special circumstances associated with programs that have competitive enrollment. These individual cases may be reviewed by the Student Development Office.

For further information about Cooperative Agreements or Chargeback agreements, please call the Career Services Office at (815) 921-4091 or stop by Student Center Room 2128 on the Main Campus.

Rock Valley College participates in the **"Comprehensive Agreement Regarding the Expansion of Educational Resources" (C.A.R.E.E.R.)**. This cooperative agreement includes the following Illinois institutions:

- Black Hawk College
- Carl Sandburg College
- Danville Community College
- Elgin Community College
- Heartland Community College
- Highland Community College
- Illinois Central College
- Illinois Valley Community College
- John Wood Community College
- Joliet Junior College
- Kankakee Community College
- Kaskaskia College
- Kishwaukee College
- Lake Land College
- Lewis and Clark Community College
- Lincoln Land Community College
- McHenry County College
- Moraine Valley Community College
- Morton College
- Prairie State College
- Rend Lake College
- Richland Community College
- Sauk Valley Community College
- Spoon River College
- South Suburban College
- Southwestern Illinois College

Rock Valley College also has individual **Cooperative Educational Agreements** with the following Illinois institutions that are not included in C.A.R.E.E.R. agreement: Harper College, Oakton Community College, and Parkland College.

Harper College
1200 West Algonquin Road
Palatine, IL 60067-7398
(847) 925-6000

- Cardiac Technology (A.A.S.)
- Cardiographic Technology Certificate
- Culinary Arts:
  Culinary Arts Certificate
- Bread and Pastry Arts Certificate
- Diagnostic Medical Sonography
  (A.A.S. and Certificate)
- Paralegal Studies
  (A.A.S. and Certificate)

Oakton Community College
1600 East Golf Road
Des Plaines, IL 60016
(847) 635-1600

- Facilities Management and Engineering (A.A.S. and Certificates)
- Health Information Technology (A.A.S. and Certificates)
- Medical Laboratory Technology (A.A.S.)
- Physical Therapist Assistant (A.A.S.)

Parkland College
2400 West Bradley Avenue
Champaign, IL 61821-1899
(217) 351-2200

- Communication Technology (A.A.S.)
- Radio-TV/Video (A.A.S.)

Rock Valley College has a cooperative educational agreement with Blackhawk Technical College in Janesville, Wisconsin for the following programs:

Blackhawk Technical College
6064 Prairie Road, P.O. Box 5009
Janesville, WI 53547
(608) 758-6900

- Culinary Arts
- Diagnostic Medical Sonography and Vascular
- Diesel and Heavy Equipment Technician
- Electric Power Distribution
- Electromechanical Technician
- Horticulture/Landscape Technician
- Human Resource Management
- HVAC/R
- Laboratory Technician Assistant
- Mechanical Design Technology
- Physical Therapist Assistant
  (2 seats for qualified students)
- Radiography
  (2 seats for qualified students)

CAREER & TECHNICAL EDUCATION PROGRAMS

Health Sciences Center

In the fall semester of 2017, Rock Valley College students in the Nursing and Allied Health Programs, including Dental Hygiene, Phlebotomy Technician, Respiratory Care, and Surgical Technology, will have a brand-new facility to call home.

The Health Sciences Center will bring all of those programs under one roof and provide students with state-of-the-art labs and classrooms, and a truly modern learning experience.

An extra benefit of the new facility is that it will also be home to the OSF St. Anthony College of Nursing, who will occupy the top floor of the building, offering priority admission for graduates of RVC's Associate Degree Nursing (ADN) Program, and offer discounted tuition to RVC grads and preferred job placement.

RVC's Nursing Program offers seamless transfer opportunities with seven (7) local Bachelor Degree Nursing Programs.

To learn more about this innovative facility and the programs it will house, as well as how it will respond to the growing needs of the local and regional health care industry, please visit: RockValleyCollege.edu/HSC.

Rock Valley College

COURSE DESCRIPTIONS

COURSE DESCRIPTIONS

Rock Valley College's courses on the following pages were approved by the Illinois Community College Board (ICCB).

Course Numbering System

Course descriptions are listed by prefix and include the course number, course title, prerequisites and corequisites, and content description. The Illinois Articulation Initiative (IAI) Code is listed where appropriate, followed by the number that indicates whether the course is Baccalaureate / Transfer (1.1), Career-Technical (1.2), or Developmental (1.4). Following the description of the course is the number of semester hours of credit, followed by the number of lecture hours and the number of lab hours. ***Note:*** not all courses are offered every year. These classifications are according to the master course file of the Illinois Community College Board.

Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) and IAI Majors Codes:

To assist students with identifying qualifying general education core courses (GECC), the following coding system will appear below the course number and title in the IAI field. If the course does not have an assigned IAI number it will appear as: "*IAI: None*."

IAI GECC DISCIPLINE	IAI PREFIX
Communications	IAI: C
Social and Behavioral Sciences	IAI: S
Humanities	IAI: H
Fine Arts	IAI: F
Interdisciplinary Hum/Fine Arts	IAI: HF
Mathematics	IAI: M
Physical Science	IAI: P
Life Sciences	IAI: L

Non-Western Culture Course: The **"N"** in the IAI code field is for courses designed specifically to examine aspects of human diversity from a non-U.S./non-European perspective.

Other letters that are used at the end of course numbers include:

D - Courses designed specifically to examine aspects of human diversity within the United States.

L - Designates laboratory courses.

R - Designates research paper courses.

IAI Majors Courses: IAI has its own individual course numbering sequence for the Illinois Baccalaureate Majors' Recommendations. Here is an example of an **IAI Majors course – IAI: CHM 911 - General Chemistry I**.

In IAI Majors there are only 2 parts of the course numbering system: the abbreviation (i.e., CHM) and the number (i.e., 911) which is a part of the unique numbering system adopted for the IAI process. The abbreviation indicates the field the course exists within. For more information about major fields and their corresponding abbreviations please go to: iTransfer.org.

Prerequisites: Many course descriptions state that a prerequisite is necessary for enrollment in such a course. Students are advised that enrolling in a course without satisfying the prerequisite may result in the student being withdrawn from such course at the request of the instructor. Refer carefully to catalog course descriptions.

If a course meets for a shorter or longer period than a 15-week semester, the lecture and laboratory hours are adjusted so that the total number of hours will be the same as the total for a 15-week semester.

Only degree-level courses numbered from 100 through 299 will meet degree requirements. Credit earned in courses numbered below 100 and above 299, and in select certificate-level courses, will not count toward any Rock Valley College degree.

Listed below is an alphabetized list of instructional disciplines followed by a subject (course) prefix/course abbreviation.

ACADEMIC DISCIPLINE	COURSE PREFIX
Accounting	ATG
Agriculture	AGR
Anthropology	ANP
Apprenticeships	APT
Art	ART
Astronomy	AST
Atmospheric Science	ATS
Automotive	ATM
Aviation	AVM
Biology	BIO
Building Construction Management	BCM
Business	BUS
Chemistry	CHM
Composition	ENG
Computers and Information Systems	CIS
Criminal Justice	CRM
Dental Hygiene	DNT
Early Childhood Education	ECE
Economics	ECO
Education	EDU
Electronic Engineering Technology	EET
Electrician Apprenticeship	ELC
Engineering	EGR
Fire Science	FRE
Fitness, Wellness, & Sport	FWS
Geography	GEO
Geology	GEL
Graphic Arts	GAT
Health Courses	HLT
History	HST
Humanities	HUM
Journalism	JRN
Literature	LIT
Management	MGT
Manufacturing Engineering Technology	MET
Marketing	MKT
Mass Communication	COM
Mathematics	MTH
Modern Languages	FRN, GRM, SPN
Music	MUS
Nursing Programs	
• Associate Degree Nursing	NRS
• Nursing Aide	NAD
Office Programs	OFF
PC Info Specialist	PCI
PC Tech Specialist/Networking	PCT
Philosophy	PHL
Phlebotomy	PLB
Physical Geography	PGE
Physics	PHY
Political Science	PSC
Psychology	PSY
Respiratory Care	RSP
Sociology	SOC
Speech	SPH
Surgical Technology	SRG
Sustainable Building Sciences	BCM
Theater	THE
Web Programming & Design	WEB
Welding	WLD

Disclaimer: The information in this catalog is subject to change without prior notice or obligation. Rock Valley College reserves the right to revise course content to reflect changing conditions, trends, and information within the discipline. It is the student's responsibility to be aware of the information in this catalog and to keep informed as additions and corrections are announced.

Accounting ATG

ATG 106 – Introduction to Accounting Debits and Credits

IAI: None *1.1*

Introduction to Accounting Debits and Credit teaches the theory of double entry accounting, which utilizes both a debit and credit part for every business transaction. Recording transactions in the general journal, posting transactions to the general ledger, and the preparing of the work sheet and preparation of the income statement, capital statement, and balance sheet will be covered.
Prerequisite: None
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

ATG 107 – Introduction to Accounting Special Journals

IAI: None *1.1*

Introduction to Accounting Special Journals is a continuation of Accounting 106, Debits and Credits. The course demonstrates the use of the special journals to save time and effort by grouping similar transactions and by division of labor. Special journals studied include the Combined Journal, Sales Journal, Purchases Journal, Cash Receipts Journal, and Cash Payments Journal. Posting procedures and special ledgers will also be covered.
Prerequisite: ATG 106
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

ATG 110 – Financial Accounting

IAI: BUS 903 *1.1*

Financial Accounting presents accounting as an information system that produces summary financial statements, primarily for users external to a business or other enterprise. Students study the forms of business organization and the common transactions entered into by businesses. The emphasis is on understanding and applying basic accounting principles and other concepts that guide the reporting of the effect of transactions and other economic events on the financial condition and operating results of a business. How to analyze and interpret historical financial statements, as well, and the limitations of using these in making forward-looking business decisions is included. The primary content emphasis will be accounting for current assets and liabilities, long-term assets and liabilities, stockholder equity, corporations' cash flow statements, and financial statement analyses.
Prerequisite: MTH 092 or MTH 096A or MTH 096S.
Concurrent registration is not acceptable.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

ATG 111 – Managerial Accounting

IAI: BUS 904 *1.1*

Managerial Accounting presents accounting as a system of producing information for internal use in managing business. The course emphasizes the identification, accumulation, and interpretation of information for planning, controlling, and evaluating the performance of the separate components of a business. Included is the identification and measurement of the costs of producing goods or services and how to analyze and control these costs. Decision models commonly used in making specific short- and long-term business decisions also are included.
Prerequisite: ATG 110 with a grade of "C" or higher.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

ATG 120 – Microcomputer Spreadsheet Application in Accounting

IAI: None *1.2*

Microcomputer Spreadsheet Application in Accounting concentrates on the utilization of a computer spreadsheet software program to solve accounting problems and to report accounting information. Current software available for the IBM-compatible microcomputer will be used.
Prerequisite: ATG 110; or ATG 106 and ATG 107
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

ATG 123 – General Ledger Software Applications in Accounting

IAI: None *1.2*

General Ledger Software Applications in Accounting concentrates on the utilization of a computer general ledger software program to solve accounting problems, and to report accounting information. The payroll function is introduced including current regulations. Current commercial software available for the IBM-compatible micro computer will be used.
Prerequisite: ATG 110, and CIS 102 or CIS 202.
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

ATG 210 – Cost Accounting

IAI: None *1.1*

Cost Accounting studies the nature of costs and relevant accounting data for purposes of improving decision-making. The determination of product costs, budgets and standards, and capital budgeting are among the topics studied. This course is a core curriculum requirement for an A.A.S. degree in accounting.
Prerequisite: ATG 111 with a grade of "C" or higher.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

ATG 215 – Intermediate Accounting I

IAI: None *1.1*

Intermediate Accounting I is an in-depth analysis of accounting principles related to the preparation of general-purpose financial statements for external users of accounting information. The efforts of accounting organizations such as the FASB (Financial Accounting Standards Board), the APB (Accounting Principles Board), and the AICPA (American Institute of Certified Public Accountants) are reflected in the material. Issues covered include those related to the Balance Sheet, Statement of Retained Earnings, Income Statement and Statement of Cash Flows. Representative areas of accounting include, but are not limited to, cash, receivables, inventories, and property, plant, and equipment. This course is a core course requirement for an A.A.S. degree in accounting. (Offered fall semester only.)
Prerequisite: ATG 111 with a grade of "C" or higher.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

ATG 216 – Intermediate Accounting II

IAI: None *1.1*

Intermediate Accounting II is a continuation of the in-depth analysis of accounting principles related to the preparation of general-purpose financial statements for external users of accounting information, which started in ATG 215. Representative areas of accounting include, but are not limited to, liabilities, including long-term debt, stockholders equity, earnings per share, revenue recognition, accounting for income taxes, accounting for leases, accounting for pensions, and the statement of cash flows. This is a requirement of financial accounting option of the A.A.S. degree in accounting.
(Offered in spring semester.)
Prerequisite: ATG 215
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ATG 218 – Federal Income Tax

IAI: None *1.2*

Federal Income Tax is a course where emphasis is placed on federal income taxes for the individual. The course covers both the practical preparation of income tax returns and the theoretical understanding of the law. Subjects covered include taxation of non-business individuals, proprietary business operations, and gains/losses from the sale of various types of property. The federal income taxation of partnerships and corporations will also be introduced. This course is a core curriculum requirement for an A.A.S. degree in accounting. Offered in Fall term only.
Prerequisite: ATG 110 or consent of instructor.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

COURSE DESCRIPTIONS

ATG 220 –
Fraud Detection and Deterrence
IAI: None *1.2*

Fraud examination will cover the principle and methodology of fraud detection and deterrence. The course includes such topics as skimming, cash larceny, check tampering, register disbursement schemes, billing schemes, payroll and expense reimbursement schemes, non-cash misappropriations, corruption, accounting principles and fraud, fraudulent financial statements, and interviewing witnesses.
Offered in Spring term only.
Prerequisite: ATG 110
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ATG 291 –
Internship Accounting
IAI: None *1.2*

Internship Accounting enables the student to work part-time as an accounting intern in a business organization, educational institution, or government agency. This will be done under the supervision of a college accounting faculty member. It is the student's responsibility to secure this part-time or full-time position, and approval must be obtained from the college faculty member. The number of work hours is variable.
Prerequisite: 30 semester hours of credit in the accounting curriculum.
Credit: 1-6 semester hours
Lecture: 0 *Lab: 5-30*

ATG 295 –
Independent Study in Accounting
IAI: None *1.2*

Independent Study in Accounting enables the student to conduct an individual project based on a special area of interest in accounting. Course requirements are based on a special area of interest in accounting. Course requirements are based on the nature of the project undertaken.
Prerequisite: None
Credit: 1-6 semester hours
Lecture: 1-6 *Lab: 0*

ATG 298 –
Accounting Capstone
IAI: None *1.2*

The Accounting Capstone course will reinforce concepts learned throughout the accounting program by applying accounting knowledge and skills to problems and cases. Students will have the option to take the national certification exam and obtain their Certified Bookkeeper Certificate upon completion of the course.
Prerequisite: This course is to be taken the final semester prior to graduation. At least 18 credit hours of ATG courses must be completed with a "C" or higher or consent of instructor.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

Agriculture AGR

AGR 106 –
Introduction to Animal Science
IAI: AG 902 *1.1*

Introduction to Animal Science is a survey course that will provide a firm biological and natural sciences background to students for understanding the principles important to the raising and management of livestock and companion animals. Students will have the opportunity to learn from animal industry leaders. The course is team taught to incorporate Animal Sciences instructors who are specialists in their subject matter areas. Specific sections will provide students with a basic understanding of how animals are raised and managed, with emphasis on new technological applications to animal production. Students interested in the area of Animal Sciences can pursue careers in areas such as Animal Business, Animal Management (behaviorist, nutritionist), Companion Animal areas (recreational/breeding), laboratory animal sciences, food animal sciences (meat sciences and production of higher quality animals for food sources), Biotechnology, and Pre-Vet Medicine, Vet Technician, and Regulatory Affairs for Government.
(This course is offered through an agreement with the University of Illinois ACES program.)
Prerequisite: None
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

AGR 110 –
Introduction to Soil Science
IAI: AG 904 *1.1*

Introduction to Soil Science explores the chemical, physical and biological properties of soils; the origin, classification, and distribution of soils and their influence on people and food production; the management and conservation of soils; and the environmental impact of soil use.
(This course is offered through an agreement with the University of Illinois ACES program.)
Prerequisite: None
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

AGR 115 –
Introduction to Crop Science
IAI: AG 903 *1.1*

Introduction to Crop Science is designed to introduce students to the basic principles of plant growth, including human and environmental influences and the theoretical and practical application of agronomic principles to crop production.
Note: *This course will be taught online using the Learning Management System of Elluminate from the University of Illinois Urbana-Champaign. There will be two Saturday on-site lab days required at the laboratory facilities at the University of IllinoisUrbana-Champaign during the semester that will be scheduled in advance for students.*
Prerequisite: None; Recommended completion of BIO 103.
Credits: 4 semester hours
Lecture: 3 *Lab: 2*

AGR 118 –
Introduction to Horticulture
IAI: AG 905 *1.1*

Introduction to Horticulture is designed to offer the student a general introduction to the principles of plant growth and development as they apply to the wide range of horticultural crops and the industries related to production, marketing, and utilization of horticultural crops.
(This course is offered through an agreement with the University of Illinois ACES program.)
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

Anthropology ANP

ANP 102 –
Introduction to Physical Anthropology and Archaeology
IAI: S1 902 *1.1*

This course is an introduction to the principles of evolution and the origin of people and their culture. It includes the study of people as a member of the order of primates, fossil people, prehistoric archaeology, and the beginnings of early civilizations, race, and racism.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ANP 103 –
Introduction to Cultural Anthropology
IAI: S1 901N *1.1*

This course is a basic survey of the principles of cultural anthropology including the concept of culture and its various aspects. Language, economics, kinship, religion, and art are included. Some attention is also given to distinctive theoretical approaches and to problems of culture change.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

Apprenticeship – Sheet Metal Workers APT

Rock Valley College, in cooperation with the Sheet Metal Workers Joint Apprenticeship Committee, sponsors related apprenticeship classroom training. Admission to the Sheet Metal Workers Apprenticeship program is determined by the joint apprenticeship committee. Students who wish to be considered for an apprenticeship should apply to the Sheet Metal Workers organization listed on page 86.

APT 180 – Introduction to Apprenticeship

IAI: None *1.2*

The Introduction to Apprenticeship course covers the historical development of apprenticeship, the local program, and the technology of the sheet metal industry. There also will be in-depth study of layout and pattern development.

Prerequisite: None
Credit: 4 semester hours
Lecture: 3 *Lab: 3.5*

APT 181 – Mathematics and Processes I

IAI: None *1.2*

The Mathematics and Processes I course is the study of mathematics, materials, and various field operations. Safety on the job will also be covered. Drafting techniques will be introduced.

Prerequisite: APT 180
Credit: 4 semester hours
Lecture: 3 *Lab: 3.5*

APT 182 – Mathematics and Processes II

IAI: None *1.2*

The Mathematics and Processes II course covers mathematics, materials, layout and pattern development, field installation and drafting.

Prerequisite: APT 181
Credit: 4 semester hours
Lecture: 3 *Lab: 3.5*

APT 183 – Mathematics and Processes III

IAI: None *1.2*

The Mathematics and Processes III course covers mathematics for sheet metal workers, as well as architectural sheet metal, welding, residential heating, and air conditioning.

Prerequisite: APT 182
Credit: 4 semester hours
Lecture: 3 *Lab: 3.5*

APT 280 – Blueprints and Patterns I

IAI: None *1.2*

The Blueprints and Patterns I course is a study of layout and pattern development along with materials and mathematics. Shop work and service functions are also included in this course.

Prerequisite: APT 183
Credit: 4 semester hours
Lecture: 3 *Lab: 3.5*

APT 281 – Blueprints and Patterns II

IAI: None *1.2*

The Blueprints and Patterns II course studies blueprint reading, blowpipe, safety, plastics and fiberglass and food and beverage dispensing equipment.

Prerequisite: APT 280
Credit: 4 semester hours
Lecture: 3 *Lab: 3.5*

APT 282 – Advanced Systems I

IAI: None *1.2*

The Advanced Systems I course is a study of the layout and pattern development, shop work, and field installation of advanced systems. Advanced welding techniques will also be studied.

Prerequisite: APT 281
Credit: 4 semester hours
Lecture: 3 *Lab: 3.5*

APT 283 – Advanced Systems II

IAI: None *1.2*

The Advanced Systems II course studies residential heating and air conditioning, food service and beverage dispensing equipment, sign work, and supervision. Architectural sheet metal and advanced blueprint reading are also covered.

Prerequisite: APT 282
Credit: 4 semester hours
Lecture: 3 *Lab: 3.5*

APT 284 – Advanced Studies I

IAI: None *1.2*

The Advanced Studies I course covers advanced welding and cutting. The course includes SMAW, MIG, and TIG welding, plus gas cutting and welding safety. The course also covers an in-depth study of service techniques.

Prerequisite: APT 283
Credit: 4 semester hours
Lecture: 3 *Lab: 3.5*

APT 285 – Advanced Studies II

IAI: None *1.2*

The Advanced Studies II course covers the procedures for air balancing (T.B.A.), service work (HVAC) and hoisting and rigging, plus the use of various air balancing instruments. The writing of project reports for engineers on the job will also be covered. The reports include information on duct traverse, air flow, air quantities and fan performance.

Prerequisite: APT 284
Credit: 4 semester hours
Lecture: 3 *Lab: 3.5*

Apprenticeship – Tool and Die/ Precision Machinist APT

Rock Valley College, in cooperation with the Rock River Valley Tooling and Machining Association, sponsors related apprenticeship classroom training. Admission to the Tool and Die/Precision Machinist Apprenticeship program is determined by the Rock River Valley Tooling and Machining Association. Students who wish to be considered for an apprenticeship should apply to the Rock River Valley Tooling and Machining Association organization listed on page 87.

Apprenticeship training is available in the specific categories of die maker, tool maker, mold maker, header die maker, precision machinist, and machine repair. For a list of all of the required classes for this program, please refer to page 87.

APT 190 – Mathematics for Machine Technology I

IAI: None *1.2*

The Mathematics for Machine Technology I course covers whole numbers, fractions, decimals, fractions, powers and roots, and percents. English and metric units of measure are used with precision measuring equipment, and formulas and equations with metalworking related subjects. Related metalworking subjects are also covered.

Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

APT 194 – Blueprint Interpretation

IAI: None *1.2*

The Blueprint Interpretation course will teach the student to interpret various types of three-view drawings, how to read tolerance information, and how to interpret dual system dimensioning and tolerances. Includes the metric system of dimensioning and ISO symbols which includes a comprehensive study of the application of geometric dimensioning and tolerancing techniques. This will use the ANSI/ASME Y10.5-M standards.

Prerequisite: APT 190
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

APT 289 – Metal Cutting Applications

IAI: None *1.2*

The Metal Cutting Applications course will teach students metal cutting applications with various types of cutting tools. Topics covered will be materials, machinability of materials, tool materials, turning, boring, milling, grooving, threading and drilling. Students will learn how to select proper tooling based on material specifications and blueprint specifications.

Prerequisite: APT 194
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

COURSE DESCRIPTIONS

Apprenticeship – Electricians ELC

Rock Valley College, in cooperation with the Electricians Joint Apprenticeship Training Committee (JATC), sponsors related apprenticeship classroom training. Admission to the Electricians Apprenticeship program is determined by the joint apprenticeship committee. Students who wish to be considered for an apprenticeship should apply to the Electricians organization listed on page 86.

ELC 120 – Introduction to Apprenticeship

IAI: None *1.2*

The Introduction to Apprenticeship class includes a historical study of apprenticeship, local apprenticeship, the electrical industry, and its future. Students will study mathematics, safety and job information on tools, materials, circuits, and good housekeeping.

Prerequisite: None
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

ELC 121 – Electrical Theory and Code

IAI: None *1.2*

The Electrical Theory and Code course includes electrical theory in structure of matter, Ohm's law, circuits, resistance, magnetism, AC and DC, and circuit calculations. The electrical code is introduced, with emphasis on definitions, wiring methods, grounding and over-current protection. Blueprint reading is also covered.

Prerequisite: ELC 120
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

ELC 122 – Lighting and Transformers

IAI: None *1.2*

The Lighting and Transformers course covers general lighting, safety, installation requirements and code studies, incandescent lamps, fluorescent lamps and ballasts, and circuit calculation. Students learn inductance to better understand transformers and motors. Transformer principles are covered in addition to types, single-phase, and three-phase connections.

Prerequisite: ELC 121
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

ELC 123 – Motors and Wiring Systems

IAI: None *1.2*

The Motors and Wiring Systems course emphasizes the principles of AC motors. Types of AC motors taught are split-phase, capacitor, repulsion, shadepole, universal, and three-phase motors. Wiring systems of less than 400 volts, 480/277 volts, three-phase delta, blueprint reading, and wiring systems for distribution are also covered.

Prerequisite: ELC 122
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

ELC 125 – Safe Electrical Work Practices

IAI: None *1.2*

Safe Electrical Work Practices is designed to encourage safe work practices in the electrician's field. The curriculum is based on the NFPA 70E, which is used by employers to help them comply with the Occupational Safety and Health Administration (OSHA) requirements. Among the topics covered are achieving a safe work environment, the use of protective equipment and clothing, and the history of electrical safety culture.

Prerequisite: ELC 120
Credit: 1 semester hour
Lecture: 1.0 *Lab: 0*

ELC 130 – OHSA 30 and Disaster Response

IAI: None *1.2*

OHSA 30 and Disaster Response is designed to provide students an awareness of the safety and health hazards that disaster site workers may encounter as well as the personal protective equipment and proper documentation procedures that may be used to mitigate the hazards. Participates will support the use of an Incidental Command System through the safe performance of their job responsibilities. Students will be made aware of the effects of traumatic incident stress that can result from working conditions and learn measures to reduce this stress.

Prerequisites: ELC 120
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ELC 140 – The Labor Movement 1865-1980

IAI: None *1.2*

The Labor Movement 1865-1980 course is designed to give the student a basic understanding of the rise of the American labor movement. Among the topics covered are the change from an agricultural society to the Industrial Revolution, the role of labor in the post-Civil War westward expansion, the need for industrial production during the two World Wars and the Great Depression, and the PATCO air traffic controllers strike.

Prerequisites: ELC 120
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

ELC 141 – The Labor Movement 1975-Present

IAI: None *1.2*

The Labor Movement 1975-Present course is designed to give the student a general understanding of the state of the American labor movement over the last thirty years. Among the topics covered are the shifts in the American political arena concerning labor, the decline in private sector manufacturing unions after the PATCO air traffic controllers strike, the politicization of OSHA and the NLRB, and recent attacks on public sector unions.

Prerequisites: ELC 140
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

ELC 142 – Labor Movement, Present & Future

IAI: None *1.2*

Labor Movement, Present & Future is designed to give the student a broad understanding of the current state of the American labor movement, and examines possible future developments based on present trends. The effect of increased cooperation with labor organizations in other nations is also discussed. Among the topics covered will be the rise of public sector union membership, lessons from the Occupy Movement, fast food workers' strikes, the movement for a living wage, and global cooperation of trade unions.

Prerequisites: ELC 141
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

ELC 243 – Alternating Current

IAI: None *1.2*

The Alternating Current course is a review of alternating current with emphasis on inductance, grounding studies, inductance reactance, capacitive reactance and mathematics for AC circuits. Included also are AC series and parallel circuits, plus power factor correction and problems.

Prerequisite: ELC 123
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

ELC 244 – Electronics Circuitry

IAI: None *1.2*

The Electronics Circuitry course focuses on basic electronics concepts, basic rectifiers, filter circuits and power supplies, and amplifier circuits. Also covered are audio amplifiers, time delays and relays, and controls.

Prerequisite: ELC 243
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

ELC 245 – Motor Control

IAI: None *1.2*

The Motor Control course includes starting protective controls, starters and relays, blueprint reading, job and reverse circuits, sequence control circuits, circuit analysis, and trouble shooting.

Prerequisite: ELC 244
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

ELC 246 – Power Controls

IAI: None *1.2*

The Power Controls course includes power controls, control of D C motors, process control, air conditioning and refrigeration, welding control, instrumentation, static control basic concept and logic circuits, and static control application of elements. Also included is a review of code and static control circuit analysis.

Prerequisite: ELC 245
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

ELC 247 –
Advanced Studies I
IAI: None *1.2*
The Advanced Studies I course begins the fifth year of Electricians Apprenticeship.
The main focus of this course is advanced studies in electronics, codeology, and code design blueprints.
Prerequisite: ELC 246
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

ELC 248 –
Advanced Studies II
IAI: None *1.2*
The Advanced Studies II course is the final class of this program. Students will receive advanced and in-depth instruction in three areas: programmable controllers, blueprints, and air conditioning controls.
Prerequisite: ELC 247
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

ELC 249 –
Electrician Internship I
IAI: None *1.2*
The Electrician Internship course has been developed and established as the on-the-job component of the Electrician Apprenticeship program, consisting of work relating to the wiring of residential, commercial, industrial, and/or specialized electrical systems. All of the on-the-job work-related activities will be performed under the direct supervision of a journeyworker. Students may repeat this course one time.
Prerequisite: ELC 121
Credit: 1 semester hour
Lecture: 0 *Lab: 5*

ELC 299 –
Special Topics in Apprenticeship
IAI: None *1.2*
Special Topics in Apprenticeship is designed to meet the needs and interests of prospective Electrician Apprentices as well as certificate completers of the program. Course requirements will be based on the topics under study and the curriculum that is presented. This course will allow additional structured classroom and/or distance learning opportunities.
Prerequisite: ELC 120 and ELC 121
Credit: 1-3 semester hours
Lecture: 1-3 *Lab: 0*

Art ART

ART 101 –
Drawing and Composition I
IAI: None *1.1*
Drawing and Composition I is an introduction to fundamental techniques and concepts of representational and expressive drawing within a variety of media. Emphasis is on object representation, spatial illusion, and the organization of structural relationships in two-dimensional space.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 4*

ART 102 –
Drawing and Composition II
IAI: None *1.1*
Drawing and Composition II is a continuation of ART 101 with greater emphasis on skill in handling materials, exploration of technique, organization of composition, and further development of awareness toward individual concept, theory, choice, process, and change. The interpretation of form and composition in two-dimensional space is reinforced.
Prerequisite: ART 101 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 4*

ART 103 –
Design I
IAI: None *1.1*
Design I is a study of basic artistic expression in two-dimensional design. Studio problems investigate the theoretical principles of composition, form, value, color, balance, pattern and texture.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 4*

ART 104 –
Color Theory
IAI: None *1.1*
Color Theory is a study of the formal and expressive properties of color based upon the theories of Itten and Albers. Studio problems investigate color compositions using the theoretical principles of color design.
Prerequisite: ART 103 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 4*

ART 111 –
Painting I
IAI: None *1.1*
Painting I is an introduction to the painting medium and its creative procedures in approaches to individual problem-solving. Included are materials and techniques of the medium along with various subjective problems involving form, color, and composition, utilizing criticism and aesthetics.
Prerequisite: ART 102
Credit: 3 semester hours
Lecture: 2 *Lab: 4*

ART 115 –
Introduction to Commercial Art
IAI: None *1.1*
Introduction to Commercial Art is a study in the layout of photo-ready art for reproduction used in commercial art. Topics include: typography, symbols, illustration, and photography. Students are introduced to page layout, illustration, and photo manipulation software on computer. The class is a studio class and will visit an advertising agency, a print shop and photographic studio.
Prerequisite: None
Credit: 4 semester hours
Lecture: 2 *Lab: 4*

ART 121 –
Ceramics I
IAI: None *1.1*
Ceramics I is an introduction to the fundamental techniques and concepts of the ceramic arts. The emphasis of this class is the exploration of the ceramic medium as a material for creative expression. Functional and sculptural aspects of the medium will be considered through assignments incorporating hand building, wheel throwing, surface treatments and glazing techniques.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 4*

ART 122 –
Ceramics II
IAI: None *1.1*
Ceramics II is a continuation of Ceramics I. The processes, techniques and aesthetic concepts in the ceramic media are further developed and intensified. Emphasis is placed on individual exploration in either hand building and/or wheel-thrown work by furthering personal awareness of form, content, and design.
Prerequisite: ART 121 or equivalent.
Credit: 3 semester hours
Lecture: 2 *Lab: 4*

ART 131 –
Introduction to Visual Arts
IAI: F2 900 *1.1*
Introduction to Visual Arts is a study of aesthetic concepts and their expression in the great art of all periods through the means of lecture, audio-visual aids, and museum visits. This class is intended for students not majoring in studio art.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

ART 141 – Introduction to Non-Western Visual Art
IAI: F2 903N *1.1*
Introduction to Non-Western Visual Art is a study of the cultural and aesthetic values of the Oriental, the Native American, the African and Oceanic peoples of the world. Through an exposure to the artistic products of Non-Western peoples, students gain a more international appreciation of aesthetics, and the sociological, spiritual and political content in visual art. The class is taught through slide lectures, video tapes, and field trips. Introduction to Non-Western Visual Art is a Non-Western humanities credit class.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ART 201 – Life Drawing
IAI: None *1.1*
Life Drawing is a figurative approach which emphasizes drawing and composition from the structure, proportions and movement of the human model through contour, gesture, and representational and expressive exercises in a variety of media.
Prerequisite: ART 102 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 4*

ART 203 – Design II
IAI: None *1.1*
Design II covers three-dimensional design. Sculptural works are constructed in a variety of media to explore problems of volume and space relationships. (Offered spring semester.)
Prerequisite: ART 103 or consent of instructor.
Credit: 3 semester hours
Lecture: 0 *Lab: 6*

ART 212 – Painting II
IAI: None *1.1*
Painting II continues the processes, techniques and ideas begun in Painting I by developing and intensifying individual direction in the painting media, with further exploration through critiques and discussions for individual comprehension of aesthetic awareness.
Prerequisite: ART 111
Credit: 3 semester hours
Lecture: 2 *Lab: 4*

ART 215 – Intaglio Printmaking
IAI: None *1.1.*
Intaglio Printmaking is an introduction to traditional and contemporary techniques with an emphasis on image development, proper Intaglio printing techniques, and creative experimentation. Appropriate instruction in the health and safety issues relative to the methods and materials of the course will also be stressed.
Prerequisite: ART 101 and 103, or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 4*

ART 216 – Relief Printmaking
IAI: None *1.1.*
Relief Printmaking is an exploration of traditional and contemporary techniques, with an emphasis on image development, proper Relief printing techniques, and creative experimentation. Appropriate instruction in the health and safety issues relative to the methods and materials of the course will also be stressed. Three hours of studio time is required each week in addition to the lecture and laboratory hours.
Prerequisite: ART 101 and 103, or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 4*

ART 246 – Art History Through Travel
IAI: None *1.1*
Art History Through Travel is a study of the major monuments in architecture, painting, and sculpture from Paleolithic times to the present in world art. Instruction is based upon pre-departure topical lectures and foreign travel to major historical sites and museum collections. Specialized in-depth studies of related cultures (e.g., Greece and Italy, Egypt and Israel, Spain and Morocco, India and Nepal, Indonesia and Malaysia, Mexico and Central America) will periodically be offered. The lectures and travel itinerary vary from year to year.
This course can be taken four times for credit.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ART 251 – History of Art I
IAI: F2 901 *1.1*
History of Art I is a study of the major monuments in architecture, painting, and sculpture from Paleolithic time to the Byzantine and Islamic eras.
This course is primarily for art majors.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ART 252 – History of Art II
IAI: F2 902 *1.1*
History of ART II is a study of the major monuments in architecture, painting, and sculpture from the medieval period to the 18th century. This course is primarily for art majors.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ART 253 – History of Art III
IAI: F2 902 *1.1*
History of Art III is a study of the major monuments in architecture, painting, and sculpture from the romantic period to the contemporary period.
This course is primarily for art majors.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ART 283 – Art in the Elementary Schools
IAI: None *1.1*
Art in the Elementary Schools is an introduction to art education at the primary school level with emphasis on various approaches to art education, art activities in the classroom, methods of display, and evaluation.
This course is intended for educators.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

ART 299 – Advanced Art Projects
IAI: None *1.1*
Advanced Art Projects are studies for advanced art students to concentrate in an area of interest. ART 299 may not be used to provide a substitution for an approved catalog course, nor will it fulfill specific general education requirements toward the A.A./A.S. degrees. Students must receive approval from the Dean of Social Sciences & Humanities and the VP of Liberal Arts and Sciences.*
Prerequisite: 2.5 minimum GPA for 15 college level credit hours.
Credit: 1-4 semester hours
Lecture: 1 *Lab: 2-6*
*May be repeated three times for credit.

Astronomy AST

AST 202 – Introduction to Astronomy
IAI: P1 906L *1.1*
Introduction to Astronomy is a broad survey of modern astronomy examining the solar and stellar systems. Topics discussed range from an overview of the structure and motion of comets, asteroids, and the planets and their natural satellites, to an examination of our present understanding of the nature, origin and evolution of the sun, stars, galaxies, and special objects. The laboratory provides an opportunity to learn about lenses and mirrors, construction and use of telescopes, how to make measurements, and how to read star charts and locate objects in the heavens. AST 202 is suitable for science and non-science students.
Prerequisite: Sufficiently high placement test score; or completion of MTH 092, or MTH 096A or MTH 096S, with a grade of "C" or better; or equivalent.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

Atmospheric Science ATS

ATS 105 – Introduction to Atmospheric Science

IAI: P1 905L *1.1*

Introduction to Atmospheric Science is an in-depth examination of the Earth's weather and climate. The course covers a broad range of topics including the origin, composition, and structure of the atmosphere; the formation of clouds and precipitation; the formation of organized weather systems; weather prediction; air pollution; climates; and atmospheric optics. This course fulfills laboratory science requirements for students both inside and outside the curriculum.

Prerequisite: Sufficiently high placement test score, or completion of MTH 092, MTH 096A or MTH 096S with a grade of "C" or better, or equivalent.

Credit: 4 semester hours

Lecture: 3 *Lab: 3*

Automotive Service Technology ATM

ATM 105 – Introduction to Brake and Chassis Systems

IAI: None *1.2*

The Introduction to Brake and Chassis Systems course offers the student an introduction to automotive brake and steering/suspension systems. Theory and operation of these systems is covered. Students will complete basic service procedures on brake and steering/suspension systems to prepare them for initial employment in the automotive service industry and further training in the Automotive Service Technology program. Safety in the use of automotive tools, equipment and chemicals is also covered.

Corequisite: Completion of or concurrent enrollment with ATM 106 and ATM 140.

Credit: 3 semester hours

Lecture: 1 *Lab: 4*

ATM 106 – Introduction to Automotive Electrical Systems and Powertrains

IAI: None *1.2*

The Introduction to Automotive Electrical Systems and Powertrains course offers the student an introduction to automotive electrical and engine/transmission systems. Theory and operation of these systems is covered. Students will complete basic service procedures on electrical and engine/transmission systems to prepare them for initial employment in the automotive service industry and further training in the Automotive Service Technology program. Safety in the use of automotive tools, equipment and chemicals is also covered.

Corequisite: Completion or concurrent enrollment with ATM 105 and ATM 140.

Credit: 3 semester hours

Lecture: 1 *Lab: 4*

ATM 107 – Automotive Electronic Fundamentals

IAI: None *1.2*

Automotive Electronic Fundamentals is a continuation of ATM 106 (Introduction to Automotive Electrical Systems and Powertrains). This class will emphasize electrical and electronic theory and analysis and introduce students to solid-state electronic components and systems. Students will determine circuit types and analyze both mathematically and with a digital multimeter.

Prerequisite: ATM 105, ATM 106, or consent of instructor.

Credits: 4 semester hours

Lecture: 3 *Lab: 3*

ATM 114 – Brakes

IAI: None *1.2*

The Brakes course continues the student's studies of automotive brake systems. This course covers in depth diagnosis, service, and repair procedures of base brake systems and anti-lock brake systems. Live work will be performed on customer vehicles in a real-world shop environment.

Prerequisite: ATM 105, ATM 106, or consent of instructor.

Credit: 4 semester hours

Lecture: 2 *Lab: 4*

ATM 140 – Engine Diagnosis and Repair

IAI: None *1.2*

The Engine Diagnosis and Repair course provides basic information on gasoline engine theory, construction, systems, and diagnosis. This information will be applied to mechanical testing and repair procedures for the entire engine. The school provides late model engines for disassembly and reassembly.

Corequisite: Completion of or concurrent enrollment with ATM 105 and ATM 106, or consent of instructor.

Credit: 6 semester hours

Lecture: 4 *Lab: 4*

ATM 203 – Heating and Air Conditioning Systems

IAI: None *1.2*

The Heating and Air-Conditioning Systems course is a lecture-laboratory course designed to train the student in theory, construction, installation, diagnosis, and proper servicing of all types of automotive heating and air conditioning systems. Emphasis is on safety procedures, practical application, and refrigerant recycling to protect the environment.

Prerequisite: ATM 106 and ATM 107, or consent of instructor.

Credit: 4 semester hours

Lecture: 3 *Lab: 3*

ATM 221 – Steering and Suspension

IAI: None *1.2*

The Steering and Suspension course continues the student's studies of automotive steering and suspension systems. This course covers in-depth diagnosis, service, and repair procedures of steering and suspension systems, and electronic suspension and steering. Live work will be performed on customer vehicles in a real-world shop environment.

Prerequisite: ATM 105 and ATM 106, or consent of instructor.

Credit: 4 semester hours

Lecture: 3 *Lab: 3*

ATM 222 – Manual Transmissions/Transaxles

IAI: None *1.2*

The Manual Transmission/Transaxles course provides training and hands-on experience in diagnosis, service and repair of manual transmissions, transaxles, clutches, drive shafts, CV joints and half shafts, and 4-wheel drive systems.

Prerequisite: ATM 105 and ATM 106, or consent of instructor.

Credit: 4 semester hours

Lecture: 3 *Lab: 3*

ATM 223 – Automotive Electrical Circuits

IAI: None *1.2*

The Automotive Electrical Circuits course is a course designed in diagnosis and repair of automotive electrical circuits and diagnosis of automotive electronic circuitry. Emphasis will be on accessory circuits and components.

Prerequisite: ATM, 105, ATM 106, ATM 107, or consent of instructor.

Credit: 4 semester hours

Lecture: 3 *Lab: 3*

ATM 228 – Engine Performance I

IAI: None *1.2*

The Engine Performance I course is designed to provide instruction and experience in the theory of operation, diagnosis, and service of solid state, computer-controlled, and distributorless ignition systems. It is designed to provide instruction and experience in the theory of operation, diagnosis, and service of automotive fuel systems and their related sub-systems. This course covers related emission systems and usage of ignition scopes, digital analyzers, scan tools, and other hand held equipment.

Prerequisite: ATM 105, ATM 106, ATM 140, or consent of instructor.

Credit: 5 semester hours

Lecture: 3 *Lab: 5*

COURSE DESCRIPTIONS

ATM 229 – Engine Performance II
IAI: None *1.2*
The Engine Performance II course is a continuation of Engine Performance I. This course is designed to analyze, diagnose, and test second generation ignition, fuel, and On-board Diagnostic II (OBDII) computer systems. Emphasis is placed on scan tool analysis and recording along with current graphing of fuel, ignition and sub-systems. Analysis will be performed by the usage of aftermarket and manufacturers' scan tools and digital storage scopes interfaced with induction current probes.
Prerequisite: ATM 105, ATM 106, ATM 140, and ATM 228, or consent of instructor.
Credit: 5 semester hours
Lecture: 3 *Lab: 5*

ATM 236 – Advanced Computers/Controls Systems
IAI: None *1.2*
The Advanced Computers/Controls Systems course is a lecture-laboratory course designed to increase the student's level of knowledge of automotive computer-controlled systems. Topics include in-depth analysis and testing of OBDII, ABS, theft deterrent systems, body electrical systems, and data communications networks. Analysis will be performed using digital meters, oscilloscopes, PC interfacing software, and other hand held equipment.
Prerequisite: ATM 105, ATM 106, ATM 107, ATM 140, and ATM 228, or consent of instructor.
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

ATM 242 – Automatic Transmissions/Transaxles
IAI: None *1.2*
Automatic Transmissions/Transaxles is a lecture-laboratory course designed to increase the student's level of knowledge of automotive automatic transmissions. The course covers theory of operation, diagnosis and repair of modern automatic transmissions. On vehicle diagnosis and service of automatic transmission hydraulics and electronics is covered. Students will disassemble and reassemble automatic transmissions and verify proper operation on the transmission dynamometer.
Prerequisite: ATM 105, ATM 106, ATM 107, ATM 223, and ATM 228 with a passing grade or consent of the instructor.
Credit: 5 semester hours
Lecture: 3 *Lab: 5*

Aviation Maintenance Technology AVM

AVM 101 – Materials and Processes
IAI: None *1.2*
The Materials and Processes course consists of theory and practice in nondestructive testing methods, basic heat treating, aircraft hardware and materials, inspection and checking of welds. Special stress will be on the fabrication of flexible and rigid lines.
Corequisite: Completion of or concurrent enrollment with AVM 103 and AVM 105.
Credit: 3 semester hours
Lecture: 2.5 *Lab: 2.5*

AVM 102 – Basic Electricity
IAI: None *1.2*
The Basic Electricity course is oriented to the aircraft system. This includes capacitance, inductance, calculating and measuring electrical power, current, resistance, continuity, and leakages. Reading schematic diagrams is emphasized. A study is also made of acid and alkaline batteries.
Prerequisite: AVM 101 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 3*

AVM 103 – Aviation Mathematics and Physics
IAI: None *1.2*
The Aviation Mathematics and Physics course is geared to the needs of the aviation maintenance technician. This includes extracting roots, raising numbers to a given power, and computing the areas and volumes of geometrical shapes. Also included is solving ratio, percentage, and proportion problems. Algebraic operations in the use of positive and negative numbers is stressed. The physics material will offer the principles of simple machines, sound, fluid, and heat dynamics.
Corequisite: Completion of or concurrent enrollment with AVM 101 and AVM 105.
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

AVM 104 – Records and Publications
IAI: None *1.2*
The Records and Publications course includes record keeping and reference to current maintenance publications. Students will be required to write descriptions of aircraft condition and work performed, as well as complete required maintenance forms, records, and inspection reports. Students will also learn to select and use FAA, manufacturers' data sheets, and Federal Aviation Regulations. Students will be able to read and interpret technical data and understand the mechanic's privileges and limitations.
Prerequisite: AVM 101 or consent of instructor.
Credit: 3 semester hours
Lecture: 2.5 *Lab: 2.5*

AVM 105 – Aircraft Drawing – Weight and Balance
IAI: None *1.2*
The Aircraft Drawing course is designed to make use of drawings, symbols, and schematic diagrams. Students will use blueprint information, charts, and graphs. Also covered is the weighing of aircraft with the completion of weight and balance checks and the recording of data.
Corequisite: Completion of or concurrent enrollment with AVM 101 and AVM 103.
Credit: 3 semester hours
Lecture: 2.5 *Lab: 2.5*

AVM 106 – Cleaning and Corrosion Control
IAI: None *1.2*
The Cleaning and Corrosion Control course covers detection, identification and treatment of corrosion on aircraft structures. Corrosion prevention strategy and phenomenon theory will be investigated.
Prerequisite: AVM 104 or consent of instructor.
Credit: 3 semester hours
Lecture: 2.5 *Lab: 2.5*

AVM 160 – Fuel and Lubrication Systems
IAI: None *1.2*
The Fuel and Lubrication Systems course covers the identification and selection of aircraft fuels, lubricants, and their systems as they apply to specific operating conditions and other utility requirements. Included is a detailed study of carburetion and fuel injection methods as they serve the complex fuel metering demands of modern aircraft powerplants.
Prerequisite: AVM 162 or consent of instructor.
Credit: 6 semester hours
Lecture: 5 *Lab: 5*

AVM 161 – Engine Support Systems
IAI: None *1.2*
The Engine Support Systems course is a theoretical and practical approach to the systems that coordinate the powerplant. They are engine instruments, fire protection, induction and supercharging, cooling, and exhaust systems. Inspections of these systems will be stressed.
Prerequisite: AVM 160 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 3*

AVM 162 – Basic Powerplants
IAI: None *1.2*
The Basic Powerplants course is a study of each engine part in theoretical and practical detail. Students will disassemble an aircraft engine and determine dimensional compliance with overhaul specifications while using precision instruments and gauges. The engine will be reassembled to operational standards. Students will be supervised in the operation of assorted types of reciprocating engines early in the course for orientation purposes.
Prerequisite: AVM 106 and AVM 247, or consent of instructor.
Credit: 6 semester hours
Lecture: 5 *Lab: 5*

AVM 163 –
Ignition Systems
IAI: None *1.2*
The Ignition Systems course is a complete study of high and low tension systems for reciprocating and turbine engines. Magnetos will be treated in detail. Special emphasis will be placed on switches, harnesses and spark plugs with related troubleshooting under operational conditions.
Prerequisite: AVM 162 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 2*

AVM 164 –
Advanced Powerplants
IAI: None *1.2*
The Advanced Powerplants course is a theoretical and practical approach to servicing, repair, overhaul, and operation of reciprocating and turbine engines with stress on developing troubleshooting skills. Theory and operation of induction, cooling, and exhaust systems for reciprocating and turbine engines will be covered. Removal and installation of engines and components and control rigging will be practiced.
Prerequisite: AVM 162 or consent of instructor.
Credit: 6 semester hours
Lecture: 5 *Lab: 5*

AVM 165 –
Engine Electrical Systems
IAI: None *1.2*
The Engine Electrical Systems course consists of theory and practice in the repair and testing of engine electrical components including starters, generators, alternators and their regulating devices, switches, controls, wiring and circuit protection methods.
Prerequisite: AVM 160 or consent of instructor.
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

AVM 166 –
Propeller Systems
IAI: None *1.2*
The Propeller Systems course covers the theory and practice of propeller installation and removal, inspection, servicing and repair of fixed pitch, constant speed, full feathering propellers and their governing systems.
Prerequisite: AVM 160 or consent of instructor.
Credit: 3 semester hours
Lecture: 2.5 *Lab: 2.5*

AVM 241 –
Aircraft Finishing and Covering
IAI: None *1.2*
The Aircraft Finishing and Covering course presents procedures concerning the interior and exterior structure of airframes as they apply to various finishing methods. Emphasis will center on application of trim, letters, touch up paint and dope, inspection of finishes and identification of defects. An introduction to fabric-covering, plastics, honeycomb, laminated structures, bonded structures, interiors, doors and windows will also be covered.
Prerequisite: AVM 106 or consent of instructor.
Credit: 3 semester hours
Lecture: 2.5 *Lab: 2.5*

AVM 242 –
Cabin Atmosphere Control Systems
IAI: None *1.2*
The Cabin Atmosphere Control Systems course covers the inspection, checking, troubleshooting, service and repair of heating, cooling, air conditioning, pressurization, and oxygen systems.
Prerequisite: AVM 246 or consent of instructor.
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

AVM 243 –
Aircraft Welding
IAI: None *1.2*
The Aircraft Welding course is a theoretical and practical approach to the methods of aircraft fabrication and repair by gas, arc, and heliarc welding. To be covered is the welding of steel, magnesium, titanium, and aluminum, the soldering of stainless steel and brass; brazing, and the fabrication of tubular structures.
Prerequisite: AVM 246 or consent of instructor.
Credit: 1 semester hour
Lecture: 1 *Lab: 1*

AVM 244 –
Aircraft Auxiliary Systems
IAI: None *1.2*
The Aircraft Auxiliary Systems course covers the inspection, checking, troubleshooting, servicing, and repair of aircraft position and warning, ice and rain control, and fire protection systems.
Prerequisite: AVM 246 or consent of instructor.
Credit: 1 semester hour
Lecture: 1 *Lab: 1*

AVM 245 –
Aircraft Electrical Systems
IAI: None *1.2*
The Aircraft Electrical Systems course is designed to familiarize students with the installation, checking, troubleshooting, servicing, and repair of aircraft electrical systems and components.
Prerequisite: AVM 102 or consent of instructor.
Credit: 3 semester hours
Lecture: 2.5 *Lab: 2.5*

AVM 246 –
Aircraft Instruments and Communication Systems
IAI: None *1.2*
The Aircraft Instruments and Communication Systems course is designed to give students a basic understanding of installation, inspection, checking, servicing, and repair of aircraft instrument, communication and navigation systems.
Prerequisite: AVM 104 or consent of instructor.
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

AVM 247 –
Aircraft Metal Structures
IAI: None *1.2*
The Aircraft Metal Structures course covers the inspection, installation, repair, checking, servicing, and fabrication of sheet metal.
Prerequisite: AVM 250 or consent of instructor.
Credit: 6 semester hours
Lecture: 5 *Lab: 5*

AVM 248 –
Hydraulic and Pneumatic Control Systems
IAI: None *1.2*
The Hydraulic and Pneumatic Control Systems course covers the repair, inspection, checking, servicing, and troubleshooting of hydraulic and pneumatic systems.
Also covered is the identification and selection of hydraulic lubricants.
Corequisite: Completion of or concurrent enrollment with AVM 249 and AVM 250.
Credit: 3 semester hours
Lecture: 2.5 *Lab: 2.5*

AVM 249 –
Aircraft Fuel Systems
IAI: None *1.2*
The Aircraft Fuel Systems course explains checking, inspection, repair, troubleshooting, servicing, management, transfer, and defueling of fuel systems. To be included are fuel pump, pressure fueling, components, fluid quantity, pressure and temperature warning systems.
Corequisite: Completion of or concurrent enrollment with AVM 248 and AVM 250.
Credit: 1 semester hour
Lecture: 1 *Lab: 1*

AVM 250 –
Assembly and Rigging
IAI: None *1.2*
The Assembly and Rigging course provides practical knowledge in rigging alignment, assembly, balancing, and jacking of aircraft.
Corequisite: Completion of or concurrent enrollment with AVM 248 and AVM 249.
Credit: 3 semester hours
Lecture: 2.5 *Lab: 2.5*

AVM 251 –
Landing Gears Systems
IAI: None *1.2*
The Landing Gears Systems course includes the inspection, checking, servicing and repair of landing gear, retraction systems, shock struts, brakes, wheels, tires and steering systems.
Prerequisite: AVM 250 or consent of instructor.
Credit: 3 semester hours
Lecture: 2.5 *Lab: 2.5*

AVM 252 –
Airframe Inspection
IAI: None *1.2*
The Airframe Inspection course covers the performance of airframe conformity and airworthiness inspection procedures.
Prerequisite: AVM 246 or consent of instructor.
Credit: 2 semester hours
Lecture: 2 *Lab: 1*

AVM 285 –
Independent Study
IAI: None *1.2*
The Independent Study course is for the aviation maintenance technology student who wishes to take their oral and practical FAA exams at Rock Valley College.
A repeat of this course, up to six credits, is permissible.
Prerequisite: None
Credit: 1-6 semester hours
Lecture: 1-6 *Lab: 0*

COURSE DESCRIPTIONS

AVM 290 – Special Topics
IAI: None *1.2*
The Special Topics course is designed to satisfy topics of special interest in a particular area of aviation. Topics will vary from semester to semester. Students may repeat this course up to a maximum of six credit hours.
Prerequisite: None
Credit: 1-6 semester hours
Lecture: 1-6 *Lab: 0*

Biology BIO

BIO 100 – Introductory Human Biology
IAI: L1 904 *1.1*
Introduction to Human Biology is intended to equip Liberal Arts majors having limited or no science background with knowledge of major biological concepts including cellular biology, molecular biology, human structure and function, genetics, evolution and heredity using humans as the study organism. Emphasis will be placed on human health and disease, as well as lifestyle choices that impact human health. Credit will not be counted toward graduation if taken after any college anatomy course.
(Recommended for students pursuing an Allied Health track.)
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BIO 103 – Introductory Life Science
IAI: L1 900 *1.1*
Introductory Life Science is designed as an introductory life science course for liberal arts majors or other students interested in a survey of biological principles. Topics covered range from the cell and the theory of evolution to genetic engineering. Credit for BIO 103 will not be counted towards graduation if students have previous credit for BIO 162, BIO 201, or BIO 205. Recommended that BIO 104 be taken in same semester as BIO 103, particularly for students pursuing an Allied Health track.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BIO 104 – Introductory Life Science Laboratory
IAI: L1 900L *1.1*
Introductory Life Science Laboratory is intended as a laboratory experience to complement BIO 103. Students meet two hours each week and explore basic biological concepts such as cell theory, evolution, and genetic engineering through hands-on exercises and online laboratories. Recommended that students take BIO 103 and 104 in the same semester. Credit for BIO 104 will not be granted without completion of BIO 103. Credit for BIO 104 will not be counted toward graduation if students have previous credit for BIO 201 or BIO 205. (Recommended for students pursuing Allied Health Track.)
Prerequisite: This course is limited to students currently enrolled in BIO 103 or who have completed BIO 103 or its equivalent.
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

BIO 106 – Environmental Science
IAI: L1 905 *1.1*
Environmental Science is designed as an introductory life science course for liberal arts majors or other students interested in environmental issues. Topics covered include ecology, pollution, and other environmental issues, with emphasis on current events and possible future solutions.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BIO 107 – Environmental Science Laboratory
IAI: L1 905L *1.1*
Environmental Science Laboratory is intended as a laboratory experience to complement BIO 106. Students meet two hours each week and explore environmental science topics through hands-on exercises, videos, field experiences, and computer activities. Recommended that students take BIO 106 and 107 in the same semester. Credit for BIO 107 will not be granted without completion of BIO 106.
Prerequisite: This course is limited to students currently enrolled in BIO 106 or who have completed BIO 106 or its equivalent.
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

BIO 113 – Plants and Society
IAI: L1 901L *1.1*
Plants and Society is a laboratory-based introductory life science course for liberal arts majors or other students interested in a survey of biological principles using plants as the study organism. Course concepts include cell and molecular biology, plant structure and function, plant genetics and heredity, evolution, ecology, and the inter-relationships between plants and humans.
Prerequisite: None
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

BIO 140 – Introduction to Evolution
IAI: L1 907 *1.1*
Introduction to Evolution is designed to introduce liberal arts majors or other students to the major principles of evolutionary biology. The course will include a history of evolutionary thought and will work through the fundamental concepts of geological evolution and its impact on life, the origins and history of life, mechanisms of evolution, and evolutionary genetics. Although the emphasis will be on major concepts, the course will also provide some understanding of the methods used in evolutionary investigations.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BIO 150 – Microbes and Society
IAI: L1 903 *1.1*
Microbes and Society is designed for the general student who wishes to learn more about microbes. This class emphasizes scientific enquiry through selected concepts in biology such as organization, function, heredity, evolution and ecology using microbes as the study organism. Topics may include a survey of microorganisms, the role of microorganisms in health and disease, ecological and economic roles of microbes and the role of microorganisms in biotechnology.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BIO 152 – Microbes and Society Laboratory
IAI: L1 903L (IAI approval pending) *1.1*
Microbes and Society Laboratory is designed as a laboratory experience to complement BIO 150. The lab experience will offer students the opportunity to see how relevant microbial organisms are to our day to day life by making food, creating nutrients, cleaning our environment and more. Students meet two hours each week and explore basic biological concepts through hands-on exercises and on-line laboratories. This course is limited to students currently enrolled in or who have completed BIO 150 or its equivalent. Credit for BIO 152 will not be granted without completion of BIO 150.
Prerequisite: This course is limited to students currently enrolled in or who have completed BIO 150 or its equivalent.
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

BIO 162 –
Human Heredity
IAI: L1 906 *1.1*
Human Heredity is designed for liberal arts majors or other students who want to learn more about the principles of human heredity, population genetics, and recent discoveries in genetics including mapping of the human genome and genetic technology.
The ethical issues raised due to advances in human heredity will also be examined.
Credit for BIO 162 will not be counted toward graduation if students have previous credit for BIO 103.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BIO 164 –
Field Ecology
IAI: None *1.1*
Field Ecology is a field based course that integrates concepts of ecology, natural history, and environmental science. Utilizing both lecture and real-life field experiences, students develop their scientific inquiry skills as they learn to identify native flora/fauna, analyze the characteristics of the various ecological zones visited and consider the influence of human activities as well as weather, soil and geologic forces.
This course requires that students travel to field destinations.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

BIO 171 –
Biology of Human Disease
IAI: None *1.1*
Biology of Human Disease is designed for the general student who wishes to learn more about diseases affecting the human body, their causes and risk factors, transmission, prevention and treatments. Topics covered include specific disorders affecting each body system including viral diseases, AIDS, and cancer.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BIO 185 –
Foundations of Anatomy and Physiology
IAI: None *1.1*
Foundations of Anatomy and Physiology is intended for students in pre-nursing, pre-respiratory therapy, pre-radiology, physical education, or other fields requiring only one semester of anatomy and physiology. This course undertakes a systems-approach, comprehensive study of the human body including the eleven main body systems as well as cytology, histology and homeostasis. Lab emphasizes the interrelationships between structure and function utilizing microscopy, dissection of the fetal pig and other vertebrate organs, the study of models, and physiological experiments. The course credit for BIO 185 will not be counted toward graduation upon completion of BIO 281 or BIO 282.
Prerequisite: CHM 110 or higher Chemistry course; and either BIO 100, BIO 103, BIO 201 or 205 with a C or better (recommended within the last 5 years).
Credit: 5 semester hours
Lecture: 4 *Lab: 2*

BIO 201 –
Fundamentals of Biology I
IAI: LI 910L, BIO 910 *1.1*
Fundamentals of Biology I is the first of two courses required for life science and pre-professional majors such as pre-medicine, pre-dentistry, pre-pharmacy, and pre-veterinary medicine. This course provides an introduction to fundamental processes of organisms at the cellular and molecular level of organization. Course topics include biochemistry, cell structure and function, cellular metabolism, genetic information flow, and theory of inheritance. Credit for BIO 103 will not be counted toward graduation if students have previous credit for BIO 201 or BIO 205. Students will not receive credit for graduation for both BIO 103 and BIO 201.
Prerequisite: None; Recommend completion of CHM 120, or equivalent.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

BIO 202 –
Fundamentals of Biology II
IAI: LI 910L, BIO 910 *1.1*
Fundamentals of Biology II is the second of two courses required for life science and pre-professional majors such as pre-medicine, pre-dentistry, pre-pharmacy, and pre-veterinary medicine. This course provides an introduction to higher levels of biological organization from the organism to the ecosystem. Course topics include organismal diversity, mechanisms of micro- and macro-evolution, behavioral ecology, and the dynamics and organization of populations, communities and ecosystems.
Prerequisite: BIO 201 with a "C" or better.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

BIO 210 –
Introductory Field Botany
IAI: None *1.1*
Introductory Field Botany entails recognition of the major plant communities in the Northern Illinois area. Lecture and lab involve ecological study of the dominant plants in these communities, plant identification, plant form and function. Two-thirds of the time is spent in the field.
Prerequisite: None
Credit: 4 semester hours
Lecture: 2 *Lab: 4*

BIO 274 –
Microbiology
IAI: None *1.1*
Microbiology is a foundation course for students pursuing a variety of biological and medical professions, as well as other interested students. Emphasis is on the broad principles of microbiology, illustrating the interrelationships between microorganisms, their environments, and humans.
Prerequisite: CHM 110, or higher CHM course; and either BIO 100, 103, 150, 201, or 205 with a "C" or better (recommended within the last 5 years)
Credit: 4 semester hours
Lecture: 2 *Lab: 4*

BIO 281 –
Human Anatomy and Physiology I
IAI: None *1.1*
Human Anatomy and Physiology I is designed for students pursuing admission to four-year nursing and other Allied Health programs. This in depth course covers approximately half the body systems, including cytology, histology, and the integumentary, skeletal, muscular and nervous systems. Laboratory exercises provide hands-on study through the use of prepared materials, cadavers, histological preparations, and computer simulations.
Prerequisite: CHM 120 or CHM 210 and either BIO 100, BIO 103, BIO 201, or BIO 205 with a "C" or better (recommend within last 5 years).
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

BIO 282 –
Human Anatomy and Physiology II
IAI: None *1.1*
Human Anatomy and Physiology II is a companion course to BIO 281 – Anatomy and Physiology I. Anatomy and Physiology II covers the remaining body systems including the endocrine, circulatory, lymphatic, respiratory, digestive, urinary and reproductive, as well as fluid and electrolyte balance, acid-base balance, and pregnancy. Laboratory exercises provide hands-on study through the use of prepared materials, gross organ dissection, cadavers, histological preparations and computer simulations.
Prerequisite: BIO 281
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

COURSE DESCRIPTIONS

BIO 290 –
Applied Research in Biology
IAI: None *1.1*
Applied Research in Biology provides elective credit for serving as an intern in a field research environment. Students will learn about research methods, use of laboratory equipment, and the role of the research team.
Prerequisite: Permission of instructor.
Credit: 3 semester hours
Lecture: 0 *Lab: 5-15*

Building Construction Management BCM

BCM 100 –
Introduction to Construction Management
IAI: None *1.2*
Introduction to Construction Management will expose the students to the principles of basic construction management.
A wide range of construction and project management topics will be discussed, including Contracts and Specifications, Estimating, Planning, Scheduling, Blueprint Reading, Material Management, Partnering and Team Building, Quality Management, and Safety. The class will utilize a case study approach to understand the many facets of Construction Management.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BCM 104 –
Construction Blueprint Reading
IAI: None *1.2*
Construction Blueprint Reading is an introductory survey course that relates the fundamental blueprint concepts to the actual processes of construction. Emphasis is on developing a broad knowledge in reading construction blueprint symbolization and terminology used in the residential and commercial construction industry. This course covers wood frame, concrete and steel frame structures. Students will perform basic estimating take-off functions and learn how to obtain information from a variety of schedules and resources.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

BCM 117 –
Construction Materials & Methods
IAI: None *1.2*
Construction Materials and Methods is a course that surveys several manufactured products used in the residential and light commercial construction industry. Emphasis is placed on the understanding of the specific properties of materials to best help predict the performance of the material. Fundamental construction methods and techniques of these structural framing members are discussed with each material group. Sustainability and energy efficient concepts are also discussed with each material. Subjects covered include wood, concrete and steel.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BCM 120 –
Mechanical Systems
IAI: None *1.2*
Mechanical Systems is course that introduces the basic systems used in both residential and light commercial construction. HVAC, plumbing and electrical systems are discussed with application to basic functions, design and efficiency. Environmentally sustainable systems used in LEED/Green Building projects are presented and discussed as alternatives.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BCM 125 –
Construction Safety
IAI: None *1.2*
Construction Safety presents a comprehensive review of safety and health standards for the construction industry as required by the Occupational Safety and Health Administration & Department of Labor. An OSHA certification card is issued upon successful completion of this course.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BCM 137 –
Architectural CAD Drafting I
IAI: None *1.2*
Architectural CAD Drafting I presents the fundamental principles designed to allow the student to learn to communicate effectively in the graphic language. This course introduces the concepts and applications of CAD drafting techniques commonly used to produce "Working Drawings" of construction projects. A partial set of residential working drawings constitutes the major student project.
Prerequisite: BCM 104 or recent drafting experience
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

BCM 168 –
Construction Internship
IAI: None *1.2*
Construction Internship requires a supervised experience in a building construction project using a cooperative training plan agreed to by the instructor, participating firm and the student. The student must submit an application to the program Chair prior to mid-term of the previous semester and requires consent of the instructor or Associate Dean. Variable and repeatable credit (two repeats allowed) may be earned up to six hours.
Prerequisite: Current enrollment in the Building Construction Management curriculum; completion of at least 15 credits in BCM courses.
Credit: 1-6 semester hours
Lecture: 0 *Lab: 5-30*

BCM 195 –
Construction Surveying I
IAI: None *1.2*
Construction Surveying I includes the fundamentals of plane surveying and the use of surveying equipment. The course is designed to emphasize the construction related aspects of surveying and includes the development of skills necessary to accurately record field notes. The measuring of distances, theory and practice of leveling as well as traversing are studied in coordinated classroom and field laboratory assignments.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

BCM 218 –
Construction Surveying II
IAI: None *1.2*
Construction Surveying II is an advanced surveying course for construction technicians. Major concepts covered are triangulation, construction computations, coordinate systems, land surveying and engineering surveying. The students will use a Total Station in the field to collect data and interface CAD software to generate drawings and maps.
Prerequisite: BCM 195 and MTH 100, MTH 132, or MTH 125
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

BCM 219 –
Statics and Strength of Materials for Building Construction
IAI: None *1.2*
Statics and Strength of Materials for Building Construction provides the analysis of real force systems by the application of equilibrium to rigid bodies and simple structures. This course is a study of stresses and deformations produced by external forces under various loading conditions and specifically applied to building construction technology.
Prerequisite: MTH 100, MTH 132 or MTH 125, or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

BCM 237 –
Architectural CAD Drafting II
IAI: None *1.2*
Architectural CAD Drafting II expands on the concepts studied in BCT 137, therefore, an introductory knowledge of computer aided drafting is assumed. Emphasis will be placed on using CAD in a business/work environment. Techniques for utilizing CAD as a tool for efficiently communicating architectural drawings in a 2-D and 3-D environment will be introduced. General techniques, practices, and standards used in the architectural/ engineering/drafting disciplines will be emphasized.
Prerequisite: BCM 137 or consent of the instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

BCM 239 –
Wood Frame Structures
IAI: None *1.2*
Wood Frame Structures presents the fundamental principles designed to allow the student to communicate effectively in the graphic language concerning wood structural components. The student will be introduced to structural wood framing techniques. Emphasis is placed upon primary structural members and their relative position within the residential and light commercial construction projects. Sustainable and energy efficiency design concepts are presented and discussed for their environmental benefit. Structural framing plans and details, drawn on the CAD system, are typical required lab projects.
Prerequisite: BCM 117 & BCM 137
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

BCM 250 –
Special Topics in Building Construction
IAI: None *1.2*
Special Topics in Building Construction explores specific applications, skills, or interest in building construction technology. A special topic requires: adequate and available materials on a specific construction related issue, a comprehensive course outline, instructor expertise, student and community interest, and ability to increase skills and/ or knowledge in building construction technology. Variable and repeatable credit up to six credit hours may be earned.
Prerequisite: Determined by the special topic and consent of instructor.
Credit: 1-6 semester hours
Lecture: 0 *Lab: 0-4*

BCM 251 –
Codes, Contracts, and Specifications
IAI: None *1.2*
Codes, Contracts, and Specifications; introduces the student to the various forms of the construction industry's legal documentation. Various types of building codes, construction contracts and project specifications are reviewed in this course. Other construction administration topics are also discussed in class, examples include: bonding, arbitration, job bidding and job qualifying requirements and LEED/Green Building documentation. American Institute of Architects (AIA) contracts documents and the International Building Codes are discussed in detail. A student case study of a current construction project constitutes a major project.
Prerequisite: BCM 104 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BCM 258 –
Case Study in Construction Management
IAI: None *1.2*
Case Study in Construction Management is a cooperative class with the architects and contractors who are under contract for large construction projects that are being built. The focus of this class is to better understand the construction processes by observing an ongoing project. Due to the fact that construction projects are several semesters in duration, students will be involved in phases of construction that are taking place during the particular semester in which the student is enrolled in the class. Students will attend construction meetings and interact with the owner, architects and contractors. The class will conduct project "walk-throughs" on a regular basis. Students can repeat this course once (for a total of two times, six credits).
Prerequisite: BCM 104 and consent of the instructor
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

BCM 260 –
Construction Estimating
IAI: None *1.2*
Construction Estimating introduces the concepts of preparing detailed construction cost estimates, including the four major components: Material, Labor, Overhead and Profit. A systematic approach to quantity surveys is emphasized. Students will complete an estimate of a residential construction project.
Prerequisite: BCM 104
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

BCM 268 –
Home Performance and Energy Auditing
IAI: None *1.2*
Home Performance and Energy Auditing course provides insight into how residential structures perform and how their inhabitants are effected during the heating and cooling of the conditioned living space. The student will develop the ability to identify and evaluate energy cost saving measures in a structure through the use of science and technology; apply that knowledge to recommending or implementing cost saving measures through the use of
sound building practices. Students will also learn to evaluate building performance through diagnostic testing.
Prerequisite: BCM 104 and BCM 117, or instructor consent.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

BCM 270 –
Construction Job Scheduling
IAI: None *1.2*
Construction Job Scheduling introduces the concepts necessary to communicate effectively in construction job scheduling. The student is introduced to the concepts of critical path and PERT method. Actual schedules are produced both manually and on the computer. Microsoft Project software is utilized for all computer applications.
Prerequisite: BCM 104 and BCM 239
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

BCM 278 –
Green Building Fundamentals
IAI: None *1.2*
Green Building Fundamentals is a course that focuses on the critical components of sustainable design and green building. Emphasis is placed on environmental implication, market trends, economic and social factors. Information will be presented on how to become a LEED Accredited Professional and how to prepare for the Green Associate Exam. Out of the classroom activities will be coordinated with the local chapter of the United States Green Building Council (USGBC).
Prerequisite: BCM 117, BCM 120 and BCM 239 or consent of the instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

BCM 298 – Independent Study
IAI: None *1.2*
Independent Study encourages individual projects or research of special interest to Building Construction Management. The student must submit an application to the program Chair prior to mid-term of the previous semester for a specific topic in cooperation with a qualified instructor. Approval of the topic and study plan by the instructor and the program Chair or Dean is required. Variable and repeatable credit may be earned up to six hours.
Prerequisite: Current enrollment in the Building Construction Management curriculum, and completion of at least 15 credits in BCM courses, and sophomore class standing.
Credit: 1-6 semester hours
Lecture: 0 *Lab: 5-30*

Business BUS

BUS 101 – Introduction to Business
IAI: None *1.1*
Introduction to Business introduces business functions, operations, and organization. The course includes forms of business ownership, management, finance, business ethics, human relations, labor-management, and marketing.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BUS 103 – Business Mathematics
IAI: None *1.2*
Business Mathematics develops skill in handling the mathematics of business transactions as a businessperson and a consumer. After a review of the fundamental processes, problems are covered which involve percentage, markup, discounts, interest, taxation, bank reconciliation, payroll, insurance, index numbers, stocks and bonds.
Prerequisite: MTH 091 & MTH 092 with a grade of "C" or higher.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BUS 105 – Consumer Economics and Personal Finance
IAI: None *1.1*
Consumer Economics and Personal Finance studies the personal, social, and political aspects of consumer roles. Among the topics discussed are consumer rights and responsibilities, consumer law, consumer decision-making, purchase decisions in various product and service categories, budgeting, taxes, macro-economic policy and inflation, borrowing, saving and investing.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BUS 130 – Entrepreneurship Principles
IAI: None *1.2*
Entrepreneurship Principles examines the various skills and habits essential for a successful entrepreneurial venture. Real world case studies will provide opportunities to analyze why certain businesses fail while others succeed. Students will also encounter exposure to a variety of entrepreneurship ventures through lectures and live experiences that support growth in problem recognition, and solution development, and the exploration of career options.
Prerequisite: None
Corequisite: Student must also register for BUS 131 – Entrepreneurship Planning
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BUS 131 – Entrepreneurship Planning
IAI: None *1.2*
Entrepreneurship Planning examines how demographics, creativity, innovation, technology, and social changes create business opportunities. This course investigates the skills required to analyze appropriate business opportunities based on personal strengths and abilities; as well as the influences of professional and financial goals. This course demonstrates the process involved in developing a marketing strategy for an entrepreneurial business plan. This course will also introduce the ethical and social responsibility aspects of entrepreneurial ventures.
Prerequisite: BUS 130
Corequisite: Student must also register for BUS 130 – Entrepreneurship Principles
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BUS 170 – Introduction to Organizational Behavior
IAI: None *1.2*
Introduction to Organizational Behavior is an introduction to the theories and concepts of human behavior and organizations. Foundations of behavior of individuals and groups and organizational structure are studied. Application of these theories and concepts of management issues are discussed.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BUS 200 – Legal Environment in Business
IAI: None *1.1*
Legal Environment in Business is a study of the legal and social environment of business, with emphases on business ethics and corporate social responsibilities. Areas of concentration include governmental regulation of business, securities law, consumer protection law, labor law and employment law.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BUS 201 – Business Law
IAI: None *1.1*
Business Law is an introduction to the legal system as it affects business activity. Areas of concentration include formation and nature of contracts, the agency relationships, and the Uniform Commercial Code, Law of Sales, and Commercial Paper.
Prerequisite: BUS 101
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BUS 203 – Economics for Business
IAI: None *1.1*
Economics for Business is a basic survey course in economics focusing on conceptual understanding of basic economic principles and their application to practical analysis rather than mathematical interpretations. Areas of concentration include economic decision-making, price determination, goals and problems of the macro economy, the role of government in the macro-economy and markets, monetary theory, costs of production, competition and market structure, and labor issues.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BUS 223 – Business Statistics
IAI: BUS 901 *1.1*
Business Statistics addresses the basic concepts of statistical analysis used in business decision-making, including the use of probability to deal with uncertainty. The student will analyze and work out simple problems and will be able to recognize the application of different statistical techniques, interpret the results of analyses, and recognize instances in which statistical techniques have been misused. Statistical concepts and techniques covered include measures of location, measures of variability, sampling distributions, interval estimation, hypothesis testing, variance analysis, and simple linear regression.
Prerequisite: one of the following Math courses – MTH 120, 132, 135, 160, 211, or 220 with a grade of "C" or higher; or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BUS 230 – Entrepreneurship Capstone
IAI: None *1.2*
Entrepreneurship Capstone is designed to develop student competency in business research instrumental for constructing a solid business plan. The course focuses on developing these skills by expanding feasibility studies and implementing the detailed business plan. Students will defend concepts through presentations and local competitions. The learning environment provides a dynamic, interactive experience that combines the classroom with experiential learning.
Prerequisite: BUS 131 or consent of instructor
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BUS 272 – Internship in Business Administration

IAI: None *1.2*

Internship in Business Administration recognizes that participation in a work setting can provide a significant educational experience beyond what can be accomplished in a formal classroom. This course provides supervised occupational experience in business administration. The student will identify an area of career emphasis which should relate to the student's intended career objective. A training plan will be developed by the student, the faculty coordinator, and the cooperating employment supervisor. The internship site is to be arranged by the student. A maximum of six semester hours of credit can be earned in this course or a combination of this course and an independent study course.

Prerequisite: Completion of 30 semester hours of credit in the Business Administration curriculum at Rock Valley College.

Credit: 1-6 semester hours

Lecture: 0 *Lab: 5-30*

BUS 279 – Principles of Finance

IAI: None *1.2*

Principles of Finance is an introduction of financial techniques used in management decisions. The course emphasizes the basic principles of finance including the process, institutions, markets, and instruments involved in the transfer of money among individuals, businesses and governments.

Prerequisite: MTH 096A or MTH 096S or MTH 094 with a grade of "C" or higher, and ATG 110.

Credit: 3 semester hours

Lecture: 3 *Lab: 0*

BUS 282 – International Business

IAI: None *1.2*

International Business examines why international business takes place, what advantages accrue to firms operating internationally, what makes international business different from purely domestic operations, and how these operations relate to a country's overall international economic position.

Prerequisite: BUS 101

Credit: 3 semester hours

Lecture: 3 *Lab: 0*

BUS 295 – Independent Study in Business Administration

IAI: None *1.2*

Independent Study in Business Administration is designed for the student who desires to conduct an individual project or research based on personal goals and objectives in an area of special interest in business. Course requirements are based on the nature of the subject under study. A maximum of six semester hours of credit can be earned in this course or a combination of this course and an internship course. This course may be repeated three times.

Prerequisite: Enrollment in the general business curriculum, completion of 30 semester hours of credit at Rock Valley College and consent of the instructor or Dean.

Credit: 1-6 semester hours

Lecture: 1-6 *Lab: 0*

BUS 296 – Special Topics in Business Administration

IAI: None *1.2*

Special Topics in Business Administration provides an overview of the many facets involved in managing and organizing today's nonprofit organization. This course will assume a realistic posture of the many and various functions involved in obtaining managerial success in a non-profit organization. Course may be repeated three times.

Prerequisite: None

Credit: 1-4 semester hours

Lecture: 1-4 *Lab: 0*

BUS 298 – Global Small Business Incubator

IAI: None *1.2*

The Global Small Business Incubator is a multidisciplinary capstone course which allows for the real-time application of small business planning, strategic management, accounting, finance, operations, sales, marketing, supply chain management, and international business theory. Students through collaborative action-learning will develop an understanding of management, entrepreneurship, and business practices that are ethically, socially, and globally responsible.

Prerequisite: 15 credit hours from any of the following disciplines: Business (BUS), Management (MGT), Marketing (MKT), and/or Accounting (ATG).

Credit: 3 semester hours

Lecture: 2 *Lab: 2*

Chemistry CHM

CHM 099 – Introductory Chemistry

IAI: None *1.4*

Introductory Chemistry is designed for the student who has not had high school chemistry or who wishes a basic review of high school chemistry. The course provides an introduction to the concepts, principles and calculations of general inorganic chemistry. The intent of this course is to ensure a more seamless and successful transition to a transferable, college-level chemistry course. Credit for CHM 099 will not be counted toward graduation.

Prerequisite: MTH 092 or MTH 096A or MTH 096S, or equivalent, with a grade of "C" or higher.

Credit: 3 semester hours

Lecture: 2 *Lab: 2*

CHM 105 – Chemistry and Society

IAI: P1 903L *1.1*

Chemistry and Society is designed for a student pursuing a non-science associates degree and is seeking a chemistry course to satisfy the Physical Science General Education requirements for an Associate of Arts (A.A.) degree. This course provides a broad background in general chemistry principles and examines the influence of chemistry on society through studies on topical subject areas in chemistry such as energy, environmental or health issues. This course is not intended for science or engineering majors. Credit will not be counted toward graduation if a student also completes General Chemistry I (CHM 120). Recent high school chemistry or CHM 099 within the last five years is highly recommended before taking this course.

Prerequisite: High school chemistry with a grade of "C" or better (recommended); MTH 094 or MTH 096A or MTH 096S or equivalent, with a grade of "C" or higher.

Credit: 4 semester hours

Lecture: 3 *Lab: 3*

COURSE DESCRIPTIONS

CHM 110 –
General, Organic and Biochemistry I
IAI: P1 902L *1.1*

General, Organic and Biochemistry I is designed for the Allied Health students who require introductory organic chemistry as part of their program of study. This course is the first semester of a two-semester sequence, and provides an introduction to the principles and fundamentals of general chemistry upon which organic chemistry is based. Topics covered include measurements; states, compositions, and properties of matter; atomic structure and chemical bonding; chemical reactions, chemical equations and calculations of formula mass and moles; solutions; acid-base equilibria and nuclear chemistry.
This course will satisfy the General Education Physical Science requirement for an Associate of Arts (A.A.) degree or an Associate in Science (A.S.) degree.
Prerequisite: CHM 099 or high school chemistry (recently taken) with a grade of "C" or better; MTH 094 or MTH 096S, or equivalent, with a grade of "C" or higher.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

CHM 120 –
General Chemistry I
IAI: P1 902L, CHM 911 *1.1*

General Chemistry I is the first semester of a college-level two-semester sequence in the study of the fundamental principles and concepts of chemistry with emphasis on such topics as stoichiometry; atomic structure; chemical periodicity; chemical bonding and structure; chemical reactions; gases; acids, bases, and salts, and thermochemistry. Laboratory time is devoted to experiments illustrating the above. CHM 120 is generally required for science majors and engineers, and satisfies the General Education Physical Science requirement for an Associate in Science (A.S.) degree or an Associate of Arts (A.A.) degree.
Prerequisite: Sufficiently comprehensive high school chemistry course (recently taken), or with a grade of "C" or better; MTH 120 or MTH 132, or equivalent, with a grade of "C" or higher.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

CHM 130 –
General Chemistry II
IAI: CHM 912 *1.1*

General Chemistry II is the second semester continuation of CHM 120 with emphasis on such topics as intermolecular forces, solutions, kinetics, chemical equilibrium, acid-based equilibria, liquids, thermodynamics, electrochemistry, and oxidation-reduction chemistry. Laboratory time is devoted to experiments illustrating the above topics and qualitative analysis of selected cations and anions. CHM 130 is generally required for science majors and engineers, and is a prerequisite for Organic Chemistry I (CHM 220).
Prerequisite: CHM 120 with a grade of "C" or higher.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

CHM 210 –
General, Organic and Biochemistry II
IAI: None *1.1*

General, Organic and Biochemistry II is the second semester continuation of CHM 110, and focuses on the organic and biochemical nature of compounds. Topics include organic nomenclature, structure, physical properties, reactions and synthesis of major organic functional groups. In addition, this course provides an introduction to biochemical topics such as carbohydrates, lipids, proteins, nucleic acids and their subsequent metabolism. This course may be a requirement for some Allied Health programs.
Prerequisite: CHM 110 with a grade of "C" or higher.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

CHM 220 –
Organic Chemistry I
IAI: CHM 913 *1.1*

Organic Chemistry I is designed for science majors and pre-professional students.
It presents the chemistry of alkanes, cycloalkanes, alkyl halides, alkenes, alkynes, alcohols, thiols, ketone, aldehydes, and ethers, with emphasis on structure and bonding, preparation, reactions, stereochemistry, and reaction mechanisms of these and related compounds. Laboratory emphasizes basic techniques used in synthesis and qualitative analysis of organic compounds including instrumentation.
Prerequisite: CHM 130 with a grade of "C" or higher.
Credit: 5 semester hours
Lecture: 3 *Lab: 4*

CHM 230 –
Organic Chemistry II
IAI: CHM 914 *1.1*

Organic Chemistry II is a continuation of CHM 220
and is designed for science majors and pre-professional students. It presents the chemistry of aromatic systems, carbonyl compounds, carboxylic acids and their derivatives, amines, coupling reactions, and biomolecules. This study includes spectroscopy, methods of preparation, reactions and reaction mechanisms of these and related compounds. Laboratory emphasizes basic techniques used in synthesis and qualitative analysis, including instrumentation.
Prerequisite: CHM 220 with a grade of "C" or higher.
Credit: 5 semester hours
Lecture: 3 *Lab: 4*

CHM 240 –
General Biological Chemistry
IAI: None *1.1*

General Biological Chemistry is designed to give the student a broad overview of the interactions of biologically active molecules. A review of basic organic functional groups will be provided as well as a review of energy requirements for chemical reactions. Four classes of biologically active molecules (carbohydrates, lipids, proteins and nucleic acids) will be studied in detail, culminating in a discussion of how these molecules interact to create and sustain living organisms (metabolism). This course is designed to provide students with sufficient background in biological chemistry to gain admission to programs in pharmacy, nutrition, nursing and other health science major programs which require proficiency in such.
Prerequisite: CHM 210-Introductory Organic Chemistry with a grade of "B" or better; or CHM 220-Organic Chemistry with a grade of "C" or better.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

Communication

- See English
- See Speech

Computers and Information Systems CIS

CIS 102 –
Introduction to Computers and Information Systems
IAI: None *1.2*

Introduction to Computers and Information Systems surveys the uses of computers in business, industry and the home. This course introduces computer concepts, principles, and terminology. A number of hands-on computer experiences are provided, including using word processing, spreadsheets, presentation, and database software. Credit will not be given for both CIS 102 and CIS 202.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CIS 117 –
Windows Command Line Programming
IAI: None *1.2*

Windows/DOS Command Line Programming is a hands-on approach to operating personal computers. An overview of the microcomputer system will be covered including the keyboard, monitor, system unit, printers, and auxiliary storage. Hands-on practice will be emphasized with a considerable portion of the course taking place at the computer. No previous knowledge of computers is required.
Prerequisite: Keyboard proficiency
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

CIS 120 – Introduction to Microsoft Word

IAI: None *1.2*

Introduction to Microsoft Word will present the basics of word processing along with such features as creating, formatting, editing, saving, and printing a document.
The techniques required for changing fonts and point sizes, setting and deleting tabs, creating headers, footers, footnotes, and using editing tools such as the spell checker will be taught.
Prerequisite: Keyboard proficiency or equivalent experience.
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

CIS 121 – Introduction to Excel

IAI: None *1.2*

Introduction to Excel will demonstrate the use of basic topics including spreadsheet design, formulas, functions, and graphing. The use of this package will be presented in a business problem-solving setting.
Prerequisite: Keyboard proficiency or equivalent experience.
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

CIS 124 – Introduction to PowerPoint

IAI: None *1.2*

Introduction to PowerPoint will present the basics needed to create, edit, and enhance presentations. Drawings, clip art, color schemes, charts, and text will be used to teach the creation of notes, handouts, outlines, and presentation slides.
Prerequisite: Keyboard proficiency or equivalent experience.
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

CIS 130 – Introduction to Access

IAI: None *1.2*

Introduction to Access is designed to teach the student the features available in Microsoft Access. The topics of creating a database, storing, sorting, and retrieving data, and querying a database will be covered. The student will learn about database management as well as the creation of forms, reports, and labels for information presentation.
Prerequisite: Keyboard proficiency
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

CIS 170 – Programming Logic & Design

IAI: None *1.2*

Programming Logic & Design introduces computer programming and problem solving in a structured program logic environment. It introduces key programming concepts, including structure, decision making, looping, arrays, and files, and enforces good style, modern conventions, and logical thinking. Students will also be introduced to object-oriented programming techniques and events. Students should take this course at the same time as they take their first programming class.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CIS 180 – Introduction to Visual Basic Programming

IAI: None *1.2*

Introduction to Visual Basic Programming is an introductory course that is designed for students and professionals with little or no Visual Basic or Windows programming experience. The student will learn the BASIC language syntax, event-driven programming, and how to put together a complete Visual Basic Application. Topics such as Windows programming standards and conventions, database programming, array processing, controls, properties, methods and events will be discussed.
Prerequisite: CIS 102; MTH 092 or MTH 096A or MTH 096S with a C or higher.
Corequisite: CIS 170
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

CIS 181 – Advanced Visual Basic Programming

IAI: None *1.2*

CIS 181, along with CIS 184, covers topics useful in preparing to take the Microsoft Certification examination in VB.NET. It builds on topics introduced in CIS 180, such as OOP concepts related to the functionality of .NET, as well as collections, arrays and database programming; and introduces additional controls useful for Windows programming. CIS 181 also teaches students how to create user-defined classes, how to program using the Windows file system, how to create MDI applications and how to deploy desktop applications.
Prerequisite: CIS 180
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

CIS 182 – Programming Visual Basic for Applications

IAI: None *1.2*

Programming Visual Basic for Applications is a course designed for experienced programmers and CIS majors interested in Visual Basic programming throughout the Microsoft Office Suite. Areas of study will include Word, Excel, Access, and PowerPoint. Students will be encouraged to create a project related to their own job/interests to incorporate design principles and VBA.
Prerequisite: PCI 106 and PCI 206 or CIS 130
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

CIS 184 – Visual Basic Programming III

IAI: None *1.2*

CIS 184 along with CIS 181 covers topics useful in preparing for the Microsoft Certification examination in VB.NET.
This course builds on topics introduced in CIS 181, such as OOP concepts related to the functionality of .NET, as well as database programming. Additionally, it includes user-defined controls, drawing and the use of graphics with .NET, plus topics related to web applications and deployment of web applications.
Prerequisite: CIS 181
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

CIS 240 – Introduction to JAVA Programming

IAI: None *1.2*

Introduction to Java Programming is a course designed to introduce the student to Java software development. Students will write platform-independent, object-oriented code for conventional applications and for Internet- and Intranet-based applets. Topics covered may include fundamental programming principles, concepts and practices; console user interfaces (CUI) and graphical user interfaces (GUI); multimedia (images, animation, and audio); object oriented programming, arrays, basic containers, text processing, inheritance, polymorphism, exception processing, and recursion. A number of programming assignments will be given to enable the student to build real-world Java applications.
Prerequisite: CIS 102, MTH 092 or MTH 096A or MTH 096S with a C or higher, or consent of instructor.
Recommended: CIS 170, CIS 276
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

COURSE DESCRIPTIONS

CIS 241 – Advanced Java Programming
IAI: None *1.2*
The second in a sequence of Java programming courses. Covers OOPs design and implementation of advanced Java programming; abstract data types, inheritance polymorphism, dynamic binding, abstract classes, interfaces; data structures (files, sets, heaps, lists, stacks, queues, trees, graphs); recursion. String and text programming; searching and sorting algorithms; JDBC database programming; GUI programming; concurrency and networking; and web programming. Students should complete BOTH CIS 240 and CIS 241 at RVC before transferring to a four-year degree granting school.
Prerequisite: CIS 240
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

CIS 245 – Programming Android for Mobile Devices
IAI: None *1.2*
Programming Android for Mobile Devices introduces the programming of simple Android mobile device applications.
This course provides an overview of the Java language, and an introduction to the Android operating system and to Android application development. By the end of the course, the student will have a firm foundation in Android programming and usage.
Prerequisite: CIS 240
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

CIS 254 – Database Programming
IAI: None *1.2*
Database Programming introduces the student to the concept of database processing. Physical representation, modeling and commercial systems are covered. Each student will have the opportunity to write programs using desktop, workstation and server software. Client/server applications will be presented. The course will use a modern database system such as Oracle or MS SQL.
Prerequisite: CIS 180 or CIS 276
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

CIS 276 – Introduction to C/C++ Programming
IAI: CS 911 *1.2*
Introduction to C/C++ Programming provides the student with an introduction to programming using the C/C++ programming language. This course is suitable for students with little or no programming background. C/C++ is an object-oriented programming language that will be used in this course to teach control structures: sequence, selection, iteration, to teach structured program design, programming style, documentation, modular design, code reusability, and program testing.
Prerequisite: CIS 102, MTH 092 or MTH 096A or MTH 096S with a C or higher, or consent of instructor. Students pursuing the Computer & Info Systems A.A.S. degree should also take CIS 170 Programming Logic & Design.
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

CIS 277 – Advanced C/C++ Programming
IAI: CS 912 *1.2*
Advanced C/C++ Programming is a continuation of CIS 276 – Introduction to C/C++ Programming. This course emphasizes the concepts, principles and practices of object-oriented programming and of data structures. Typical topics include classes, data abstraction, encapsulation, inheritance, polymorphism, information hiding, software reusability, overloading, vectors, lists, queue, stacks and STL.
Prerequisite: CIS 276
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

CIS 279 – Visual C# Programming
IAI: None *1.2*
Visual C# Programming emphasizes event-driven programming. Typical topics include design principles and practices, object-oriented and procedural development, GUI design and implementation, data files and database connectivity, graphical resources, software project management, multithreading and multitasking.
Prerequisite: CIS 102, MTH 092 or MTH 096A or MTH 096S with a C or higher, or consent of instructor.
Corequisite: CIS 170
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

CIS 280 – Programming iOS Apple Mobile Devices
IAI: None *1.2*
Programming iOS Apple mobile devices introduces the concept of programming simple iOS mobile device applications using Cocoa (application development environment) and Objective C. Students will learn basic Objective C concepts, iPad programming basics, and use the SDK environment on Apple Macintosh computers with OS X as a development platform. Design concepts and programming tools will be integrated with an emphasis on developing and deploying iPad applications.
Prerequisite: None
Credits: 4 semester hours
Lecture: 3 *Lab: 2*

CIS 290 – Special Topics in Computers and Information Systems
IAI: None *1.2*
Special Topics in Computers and Information Systems is a study of advanced topics in computer science. The student will study selected topics of current practices in computer information and support systems for business and industry. Students will also participate in one or more projects involving the project life cycle: analysis, design, coding, testing/debugging, implementation, and maintenance. Programming may be required. Exact course requirements are based on the nature of the topics under study.
Prerequisite: Consult the RVC class schedule at: RockValleyCollege.edu/Courses to determine prerequisites and other requirements.
Credit: 1-6 semester hours
Lecture: 1-6 *Lab: 1-6*

CIS 291 – Internship – Field Project
IAI: None *1.2*
Internship – Field Project requires individual assignments at Rock Valley College or in a carefully selected local data processing installation. The primary purpose of this course is to give the student an in-depth study of a practical data processing application or subject.
Prerequisite: Successful completion of a sufficient number of courses to permit the student to perform a useful service to the host company; active pursuit of a Computers and Information Systems degree program; permit slip signed by division Dean. This course may be repeated to a maximum of six credits.
Credit: 1-6 semester hours
Lecture: 0 *Lab: 1-6*

Criminal Justice CRM

CRM 101 – Introduction to Criminal Justice
IAI: None *1.2*
Introduction to Criminal Justice is open to all students and covers philosophy and history of law enforcement; crime and police problems; organization and jurisdiction of local, state, and federal law enforcement agencies; and a survey of professional career opportunities and their corresponding required qualifications.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CRM 102 – Introduction to Probation and Parole
IAI: None *1.2*
Introduction to Probation and Parole is designed to acquaint the student with the functions, procedures and objectives of probation and parole systems. Emphasis will be placed on developing the students' understanding of the role of probation and parole in the criminal justice system.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CRM 103 – Introduction to Corrections
IAI: CRJ 911 *1.2*
Introduction to Corrections provides for the opportunity to study the history of corrections in society, as well as the philosophical goals of the corrections system as a means to deter crime. The course will also focus on contemporary issues in the field of corrections, including such topics as jail standards and the application of the Americans with Disabilities Act in the jail/prison systems.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CRM 104 –
Introduction to Private Security
IAI: None *1.2*
Introduction to Private Security is designed as an introductory overview of the field, for either supervisors or security officers. The general emphasis of this course is in the areas of personnel and property conservation. Areas covered will include legal boundaries, human relations, interviews and interrogation, accident prevention, fire hazards, and traffic control. The role of "loss prevention officers" will also be discussed.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CRM 105 –
Police Report Writing
IAI: None *1.2*
Police Report Writing includes specialized training for law enforcement and private security personnel. The course includes a review of basic vocabulary, grammar and written organization skills. Thereafter, the course will center on the methods of writing reports in various components of the criminal justice system; emphasis will be on law enforcement narrative report writing. Students will use the field notes, forms, and narrative and description procedures of area law enforcement agencies.
Prerequisite: ENG 101
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CRM 120 –
Criminal Investigation
IAI: None *1.2*
Criminal Investigation covers the basics of criminal investigation, including crime scene search and recording; collection and preservation of physical evidence; scientific aids; sources of information; interviews and interrogations; follow-up investigations and case preparation.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CRM 125 –
Criminal Procedure and Civil Rights
IAI: None *1.2*
Criminal Procedure and Civil Rights covers the rights and privileges of individuals and groups. The emphasis is on current decisions, which govern the actions of law enforcement officers.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CRM 127 –
Ethics in Law Enforcement
IAI: None *1.2*
Ethics in Law Enforcement will introduce the student to the ethical principles that apply to those entering law enforcement and related career paths. Specific examples of police corruption in the United States will be examined. Students will be exposed to contemporary ethical standards, which govern the conduct of individuals entering these fields.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CRM 210 –
Criminal Law
IAI: None *1.1*
Criminal Law covers the reasons for criminal laws; their source and function in today's society. The course then focuses on the structure, definitions, and most frequently used sections of the penal code and other criminal statutes. Additionally, the course will study criminal law as it pertains to local jurisdictions. The classifications of crimes and the nature of crimes will also be discussed.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CRM 225 –
Juvenile Procedures
IAI: None *1.2*
Juvenile Procedures covers the position law enforcement agencies have in juvenile and delinquency control, organization and functions of related juvenile agencies, the laws governing the handling of juvenile offenders, and the application of those laws. Also included is a brief resume of the juvenile court and its jurisdiction.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CRM 260 –
Police Organization and Administration
IAI: None *1.2*
Police Organization and Administration is designed to give students a knowledge of the principles and practice involved in the organization and administration of law enforcement agencies. Special emphasis will be on management, planning, problems in division of work assignments, specialization, internal communication and budgeting.
Prerequisite: CRM 101 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CRM 271 –
Patrol Procedures
IAI: None *1.2*
Patrol Procedures will expose students to the patrol function of law enforcement. Emphasis will be placed on the techniques and procedures necessary to successfully investigate such incidents as crashes, domestic disputes, high-risk vehicle stops and other law enforcement calls for service.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CRM 281 –
Rules of Evidence
IAI: None *1.2*
Rules of Evidence covers the importance of evidence collected and preserved by law enforcement officers. Subjects such as judicial evidence, proof, laws of evidence, degree of certainty, kinds and types of evidence, relevancy and irrelevancy, materiality and immateriality, competency and incompetency will be covered. The course also covers the admissibility of evidence and confessions.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab 0*

CRM 282 –
Interviews and Interrogations
IAI: None *1.2*
Interviews and Interrogations is designed to help the student understand the purpose and importance of proper interviews/interrogations as well as the methods of interviewing/interrogating. Assessment of the verbal and non-verbal communication in the interview/interrogation process will be stressed. Students will learn the philosophy of interviews and interrogations, how to compose and ask questions, and what to avoid in interviews and interrogations.
Prerequisite: CRM 101 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

CRM 283 –
Special Topics in Police Science
IAI: None *1.2*
Special Topics in Police Science is designed to meet the needs or interests of the prospective police applicant as well as the veteran officer. Course requirements are based on the topics under study. This course may be repeated three times.
Prerequisite: None
Credit: 1-4 semester hours
Lecture: 1-4 *Lab: 0*

CRM 291 –
Internship
IAI: None *1.2*
Internship provides for observation and limited participation in law enforcement or related agencies. Consent of program coordinator and agency is required. 75 hours of internship is required for each hour of credit.
Prerequisite: Successful completion of 12 credits in the criminal justice curriculum.
May be repeated up to three times, for a total of six credits maximum.
Credit: 1-6 semester hours
Lecture: 1 *Lab: 5-30*

COURSE DESCRIPTIONS

Dental Hygiene DNT

DNT 102 – Preventive Dental Hygiene
IAI: None *1.2*
Preventive Dental Hygiene provides an introduction to the causes and prevention of the two most common dental diseases: dental caries and periodontal disease. Students learn to assess client needs and to provide education that will help the client to maintain or enhance oral health.
Prerequisite: BIO 282, ENG 101, and admission into the Dental Hygiene program.
Corequisite: DNT 104, 106, 108, 110
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

DNT 104 – Dental Anatomy, Histology, and Embryology
IAI: None *1.2*
Dental Anatomy, Histology and Embryology introduces the students to terminology relating to anatomic structures of the oral cavity. Special emphasis is placed on the teeth and root morphology of both primary and permanent teeth and occlusal classification.
Prerequisite: BIO 282, ENG 101, and admission into the Dental Hygiene program.
Corequisite: DNT 102, 106, 108, 110
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

DNT 106 – Head and Neck Anatomy
IAI: None *1.2*
Head and Neck Anatomy will provide the students with an introduction to human histology and orofacial embryology. The course includes special emphasis of the anatomy of the tissues of the oral cavity, head and neck, with detailed study of the skeletal, muscular, glandular, circulatory, nervous and epithelial structures.
Prerequisite: BIO 282, ENG 101, and admission into the Dental Hygiene program.
Corequisite: DNT 102, 104, 108, 110
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

DNT 108 – Preclinical Dental Hygiene Theory
IAI: None *1.2*
Preclinical Dental Hygiene Theory provides students with the scientific principles of dental hygiene practice with emphasis on data collection, client assessment, oral health education, and basic instrumentation. Practice of infection control standards and regulations are an integral component.
Prerequisite: BIO 282, ENG 101, and admission into the Dental Hygiene program.
Corequisite: DNT 102, 104, 106, 110
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

DNT 109 – Preclinical Dental Hygiene Lab
IAI: None *1.2*
Preclinical Dental Hygiene Lab provides students with a safe environment to practice concepts of infection control, positioning, extra and intra-oral exams, and basic instrumentation. Students will practice on typodonts and peer patients.
Prerequisite: BIO 282, ENG 101, and admission into the Dental Hygiene Program.
Corequisite: DNT 102, 104, 106, 110
Credit: 2 semester hours
Lecture: 0 *Lab: 6*

DNT 110 – Nutrition and Biochemistry
IAI: None *1.2*
Nutrition and Biochemistry will provide the student with an understanding of how to apply sound nutrition principles in assessing, diagnosing, planning, implementing, and evaluating total care of clients, and to help the student contribute to the nutritional well-being of clients.
Prerequisite: BIO 282, ENG 101, and admission into the Dental Hygiene program.
Corequisite: DNT 102, 104, 106, 108
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

DNT 112 – Clinical Dental Hygiene I
IAI: None *1.2*
Clinical Dental Hygiene I parallels DNT 113, Dental Hygiene Theory I. This course is a continuation of DNT 108, Preclinical Dental Hygiene. The course will provide clinical practice in fundamental dental hygiene instrumentation skills on community clients. This course emphasizes client assessment, application of dental hygiene care techniques, instrumentation, oral health products, client motivation and education techniques, and dental hygiene care planning.
Prerequisite: DNT 102, 104, 106, 108, 110
Corequisite: DNT 113, 114, 115, 116, 117, 118, 120
Credit: 2 semester hours
Lecture: 0 *Lab: 8*

DNT 113 – Dental Hygiene Theory I
IAI: None *1.2*
Dental Hygiene Theory I parallels DNT 115 Dental Hygiene Lab I. Emphasis will be on the Dental Hygiene process of care and management of clients. Topics include desensitizing agents, ultrasonics, air polishers, intra-oral cameras, instrument sharpening, stains and polishing.
Prerequisite: DNT 102, 104, 106, 108, 110
Corequisite: DNT 112, 114, 115, 116, 117, 118, 120
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

DNT 114 – General and Oral Pathology
IAI: None *1.2*
General and Oral Pathology provides students with an introduction to the role of the dental hygienist in identifying and describing abnormal oral findings. The course focus is on the fundamentals of the general and oral pathological processes to better prepare the student to provide optimal oral healthcare.
Prerequisite: DNT 102, 104, 106, 108, 110, BIO 274
Corequisite: DNT 112, 113, 115, 116, 117, 118, 120
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

DNT 115 – Dental Hygiene Lab I
IAI: None *1.2*
Dental Hygiene Lab I parallels DNT 113 Dental Hygiene Theory I. Supervised practical application of theory includes: oral hygiene instruction, desensitizing agents, subgingival irrigation, fluoride treatment, ultrasonics, air polishers, intra-oral cameras, instrument sharpening, coronal polishing. New technologies that may enhance dental hygiene care will be explored. This lab will allow students to practice these skills in order to prepare the students for clinical application.
Prerequisite: DNT 102, 104, 106, 108, 110
Corequisite: DNT 112, 113, 114, 116, 117, 118, 120
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

DNT 116 – Dental Radiology Theory
IAI: None *1.2*
Dental Radiology Theory will provide the student with the theory and procedures for exposing and developing various dental films. Radiation physics, characteristics and radiation biology and protection will be addressed. Radiation equipment, dental film and processing, and Intra- and Extra-oral radiographic techniques along with radiographic interpretation will be emphasized.
Prerequisite: DNT 102, 104, 106, 108, 110, BIO 274
Corequisite: DNT 112, 113, 114, 115, 117, 118, 120
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

DNT 117 – Dental Radiology Lab
IAI: None *1.2*
Dental Radiology Lab will provide the student with the procedures for exposing and developing various dental films, including extra and intra-oral techniques. Infection control and safety factors will be addressed. Film duplication, techniques for special needs clients and other supplemental techniques are included. Practical experience on manikins and selected clients is included.
Prerequisite: DNT 102, 104, 106, 108, 110, BIO 274
Corequisite: DNT 112, 113, 114, 115, 116, 118, 120
Credit: 1 semester hours
Lecture: 0 *Lab: 3*

DNT 118 –
Dental Pharmacology
IAI: None 1.2
Dental Pharmacology provides the student with knowledge of current drugs, including their pharmacologic effects, adverse reactions, indications and contraindications as they relate to patient medical history and dental hygiene treatment.
Prerequisite: DNT 102, 104, 106, 108, 110, BIO 274
Corequisite: DNT 112, 113, 114, 115, 116, 117, 120
Credit: 2 semester hours
Lecture: 2 Lab: 0

DNT 120 –
Introduction to Periodontics I
IAI: None 1.2
Introduction to Periodontics I will introduce the student to the fundamental theories of periodontics. The course reviews basic histology, etiology, clinical features, and treatment of periodontal infections; emphasizes diagnosis, treatment planning and management of periodontal patients.
Prerequisite: DNT 102, 104, 106, 108, 110, BIO 274
Corequisite: DNT 112, 113, 114, 115, 116, 117, 118
Credit: 2 semester hours
Lecture: 2 Lab: 0

DNT 210 –
Dental Materials Theory
IAI: None 1.2
Dental Materials Theory provides an introduction to the use of dental materials used in the practice of dentistry. This course will present the properties of amalgams, gypsum, impression materials, sealants and other dental materials. Students will be prepared to apply theory to manipulate various dental materials and to educate patients on proper maintenance of restorations.
Corequisite: DNT 112, 113, 114, 115, 116, 117, 118, 120
Corequisite: DNT 211, 212, 213
Credit: 2 semester hours
Lecture: 2 Lab: 0

DNT 211 –
Dental Materials Lab
IAI: None 1.2
Dental Materials Lab provides an introduction to the use of dental materials used in the practice of dentistry. It will include the manipulation of materials to increase the knowledge of dental materials and to prepare the student for clinical procedures to be performed on patients. Laboratory safety guidelines will be emphasized.
Corequisite: DNT 112, 113, 114, 115, 116, 117, 118, 120
Corequisite: DNT 210, 212, 213
Credit: 1 semester hours
Lecture: 0 Lab: 3

DNT 212 –
Clinical Interim
IAI: None 1.2
Clinical Interim provides the continuation of clinical practice and management in oral prophylaxis on the child, young adult and adult clients applying consistent infection control and client assessment and analysis. Preventive techniques and exposing of radiographs is also included.
Corequisite: DNT 112, 113, 114, 115, 116, 117, 118, 120
Corequisite: DNT 210, 211, 213
Credit: 2 semester hours
Lecture: 0 Lab: 6

DNT 213 –
Introduction to Dental Hygiene Research
IAI: None 1.2
Introduction to Dental Hygiene Research provides the fundamental skills to review and interpret dental scientific literature. The course includes an introduction to research methodologies and statistical analysis, and includes research on the Internet.
Corequisite: DNT 112, 113, 114, 115, 116, 117, 118, 120, ENG 103
Corequisite: DNT 210, 211, 212
Credit: 1 semester hour
Lecture: 1 Lab: 0

DNT 214 –
Periodontics II
IAI: None 1.2
Periodontics II is a continuation of DNT 120. Course content includes additional knowledge required to diagnose and treat periodontal diseases, clinical management of the periodontium and adjunctive therapies relevant to the maintenance of periodontal health. Emphasis is placed on the differential diagnosis and treatment of periodontal disease. Surgical and post-surgical topics will also be covered in the course.
Prerequisite: DNT 210, 211, 212, 213
Corequisite: DNT 215, 216, 217, 218, 220, 221
Credit: 2 semester hours
Lecture: 2 Lab: 0

DNT 215 –
Pain Management in Dental Hygiene Practice
IAI: None 1.2
Pain Management in Dental Hygiene Practice is a continuation of DNT 212, 213, and parallels DNT 216. It will enable the student to complete comprehensive dental hygiene treatment utilizing pain management techniques.
Prerequisite: DNT 210, 211, 212, 213
Corequisite: DNT 214, 216, 217, 218, 220, 221
Credit: 3 semester hours
Lecture: 2 Lab: 2

DNT 216 –
Clinical Dental Hygiene II
IAI: None 1.2
Clinical Dental Hygiene II is a continuation of DNT 112, DNT 212 and coincides with course DNT 217. The course will provide clinical practice and management in oral prophylaxis on the adult and periodontally involved client. Periodontal and preventive techniques and exposing of radiographs are also included.
Prerequisite: DNT 210, 211, 212, 213
Corequisite: DNT 214, 215, 217, 218, 220, 221
Credit: 4 semester hours
Lecture: 0 Lab: 12

DNT 217 –
Dental Hygiene Theory II
IAI: None 1.2
Dental Hygiene Theory II parallels DNT 216 Clinical Dental Hygiene II. Topics include desensitizing agents, ultrasonics, air polishers, intra-oral cameras, and medical emergencies that may occur in the dental setting. In-depth discussion of these concepts and application of these skills will be practiced in order to prepare the student for clinical experiences.
Prerequisite: DNT 210, 211, 212, 213
Corequisite: DNT 214, 215, 216, 218, 220, 221
Credit: 1 semester hour
Lecture: 1 Lab: 0

DNT 218 –
Dental Ethics, Jurisprudence, and Practice Management
IAI: None 1.2
Dental Ethics, Jurisprudence, and Practice Management provides the student with the skills needed for successful clinic practice management. Emphasis is placed on professional relationships and the various roles dental hygienists encounter in the various dental specialties. The course focus also includes ethical and legal obligations by the dental professionals to the community and public it serves.
Prerequisite: DNT 210, 211, 212, 213
Corequisite: DNT 214, 215, 216, 217, 220, 221
Credit: 2 semester hours
Lecture: 2 Lab: 0

DNT 220 –
Community Dental Health
IAI: None 1.2
Community Dental Health focuses on the current concepts of community dental health, the dental hygienist's role in the prevention of dental problems, and the delivery of dental care to society. Students participate in community programs.
Prerequisite: DNT 210, 211, 212, 213
Corequisite: DNT 214, 215, 216, 217, 218, 221
Credit: 2 semester hours
Lecture: 2 Lab: 0

COURSE DESCRIPTIONS

DNT 221 –
Community Dental Health Practicum
IAI: None *1.2*
Community Dental Health Practicum is a companion course to DNT 220, Community Dental Health. Selected experiences are provided to assist in the delivery of oral health education and services in community settings. Emphasis is on health promotion, communication, collaboration, development and delivery of educational presentations.
Prerequisite: DNT 210, 211, 212, 213
Corequisite: DNT 214, 215, 216, 217, 218, 220
Credit: 1 semester hours
Lecture: 0 *Lab: 3*

DNT 224 –
Clinical Dental Hygiene III
IAI: None *1.2*
Clinical Dental Hygiene III provides a continuation of DNT 216 and coincides with course DNT 225. This course will provide clinical practice and management in oral prophylaxis and periodontal therapy on the adult patient. Preventive techniques and exposing of radiographs are also included.
Prerequisite: DNT 214, 215, 216, 217, 218, 220, 221
Corequisite: DNT 225
Credit: 4 semester hours
Lecture: 0 *Lab: 12*

DNT 225 –
Dental Hygiene Theory III
IAI: None *1.2*
Dental Hygiene Theory III provides the student with continued dental hygiene theory and background of DNT 216 and 217 and parallels clinical course DNT 224.
Emphasis is placed on medically compromised and special needs clients, and dental specialties. The course also prepares students for licensure examinations and to transition into the role of a practicing dental hygienist, covering topics such as interviewing, resume writing, and conflict resolution.
Corequisite: DNT 214, 215, 216, 217, 218, 220, 221
Corequisite: DNT 224
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

Drama

– See Theatre

– See Literature

Early Childhood Education ECE

ECE 100 –
The Child Care Worker
IAI: None *1.2*
The Child Care Worker develops an understanding of the child care worker in relation to guiding the young child. Methods of analyzing programs and possible solutions are investigated as they relate to human behavior. A weekly two-hour field assignment is required.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ECE 101 –
The Developing Child
IAI: None *1.2*
The Developing Child is an overview of the physical- motor, emotional, social and cognitive growth processes from the prenatal period through adolescence. This course is a prerequisite for all upper level Early Childhood Education courses.
Prerequisite: None
Credit: 5 semester hours
Lecture: 5 *Lab: 0*

ECE 103 –
Nutrition and Health of the Young Child
IAI: None *1.2*
Nutrition and Health of the Young Child includes the study of basic human nutrition, the nutritional value of food, relationship of food and food habits to nutrition, relationship of nutrition to biological development, safety, health and sanitary practices, regulations and agencies. (Offered fall semester.)
Prerequisite: Credit or concurrent registration in ECE 101.
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

ECE 104 –
Large Muscle Development
IAI: None *1.2*
Large Muscle Development provides an opportunity to plan and implement appropriate physical activities both indoors and outdoors for young children. (Offered spring semester.)
Prerequisite: Credit or concurrent registration in ECE 101.
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

ECE 105 –
Developing Techniques for Working with the Young Child
IAI: None *1.2*
Developing Techniques for Working with the Young Child includes weekly participation experiences with groups of young children. Emphasis is on the child care worker's role in relation to young children. Weekly seminars will include discussion of guidance principles and techniques applied to children in group situations, leading toward the development of a personal philosophy of child guidance.
A weekly five-hour field assignment is required. (Offered spring semester.)
Prerequisite: ECE 101
Credit: 3 semesters hours
Lecture: 2 *Lab: 5*

ECE 106 –
Music for the Young Child
IAI: None *1.2*
Music for the Young Child will include a survey of the types of musical interests of young children, and a collection of songs and musical experiences for young children will be developed. Emphasis is given to methods which will encourage musical participation by the children. Weekly field assignments are required. (Offered fall semester.)
Prerequisite: Credit or concurrent registration in ECE 101.
Credit: 3 semesters hours
Lecture: 3 *Lab: 0*

ECE 107 –
Science for the Young Child
IAI: None *1.2*
Science for the Young Child will focus on methods and planning activities for science with young children and will emphasize the guided exploration and experimentation of children in their world. Weekly field assignments are required. (Offered spring semester.)
Prerequisite: Credit or concurrent registration in ECE 101.
Credit: 2 semesters hours
Lecture: 2 *Lab: 0*

ECE 108 –
Art for the Young Child
IAI: None *1.2*
Art for the Young Child introduces a wide variety of art media and activities suitable for use with young children with an emphasis on the value and importance of these enriching creative art experiences. Weekly field assignments are required. (Offered spring semester.)
Prerequisite: Credit or concurrent enrollment in ECE 101.
Credit: 3 semesters hours
Lecture: 3 *Lab: 0*

ECE 113 –
Infant and Toddler Curriculum
IAI: None *1.2*
Infant and Toddler Curriculum focuses on nurturing, care-giving methods: planning and implementing developmentally appropriate practices for infants and toddlers; and age-appropriate behavioral guidance techniques.
Prerequisite: None
Credit: 3
Lecture: 2 *Lab: 2*

ECE 200 – Introduction to Early Childhood Education
IAI: None *1.1*
Introduction to Early Childhood Education provides an introduction to the early childhood education profession with an emphasis on developmentally appropriate practices, professionalism and historical foundations of early education. An overview of program models, various types of early childhood programs, community resources, the family's role in education, diversity, contemporary trends and issues in programs for children ages birth through eight will be addressed. The course is appropriate for individuals seeking to work in a licensed childcare center facility, licensed home day care, or earn an advanced degree in Early Childhood Education for the purpose of working in a public or private school. 15 hours of field observations are required.
Prerequisite: None
Credit: 3
Lecture: 2 *Lab: 2*

ECE 201 – Language Development
IAI: None *1.2*
Language Development will focus on the structure and function of children's language, developmental process of language and its interrelationship and dependency upon other growth processes. Weekly field assignments are required. (Offered fall semester.)
Prerequisite: Credit or concurrent registration in ECE 101.
Credit: 3 semesters hours
Lecture: 3 *Lab: 0*

ECE 202 – Family-Community Relationships and Resources
IAI: None *1.2*
Family Community Relationships and Resources focuses on the child's understanding of his or her world as an individual and as a member of a larger community, and his or her relationship to it. Emphasis is on communication with parents, community leaders and resource people, and their influence on the child's development. Students are required to search out the resources of the community and compile an annotated list of the community resources. (Offered spring semester.)
Prerequisite: ECE 101
Credit: 3 semesters hours
Lecture: 3 *Lab: 0*

ECE 203 – Curriculum Planning for the Young Child
IAI: None *1.2*
Curriculum Planning for the Young Child is designed to enable the student to plan a developmentally appropriate curriculum for young children. Emphasis is on planning engaging activities that meet individual and group needs. (Offered fall semester.)
Prerequisite: ECE 101 and two of the following: ECE 103, 104, 106, 107, 108, 201 or 206 – concurrent enrollment is acceptable.
Credit: 3 semesters hours
Lecture: 3 *Lab: 0*

ECE 204 – Internship – Child Care
IAI: None *1.2*
Internship in Early Childhood Education provides an opportunity to plan and direct learning activities in a child care facility under the direct supervision of a DCFS qualified teacher as well as the college supervisor. Emphasis is on understanding the teacher's role as a member of a teaching team working with children and their families. Weekly meetings, full teaching duties and written assignments will be required. 240 contact hours are required.
Prerequisites: Credit in all ECE courses except 202 and 205. A minimum grade of "C" is required in all courses. Department permission is required, based on the Code of Ethics for the Department.
Credit: 4 semesters hours
Lecture: 1 *Lab: 15*

ECE 205 – Organization and Supervision of Early Childhood Facilities
IAI: None *1.2*
Organization and Supervision of Early Childhood Facilities provides study in the supervisory responsibilities involved in the administration of an early childhood facility. It also includes program planning and implementation, supervision principles, staff management, budget preparation, record keeping and evaluation procedures, governmental licensing and regulatory agencies. (Offered spring semester.)
Prerequisite: ECE 101
Credit: 3 semesters hours
Lecture: 3 *Lab: 0*

ECE 206 – Mathematics for the Young Child
IAI: None *1.2*
Mathematics for the Young Child includes planning and implementation of appropriate mathematical activities for young children. Field assignments will be required. (Offered fall semester.)
Prerequisite: Credit or concurrent registration in ECE 101.
Credit: 2 semesters hours
Lecture: 2 *Lab: 0*

ECE 207 – Special Topics in Child Development
IAI: None *1.2*
Special Topics in Child Development provides special instruction in the application of child care and development principles and skills to preschool and/or day-care situations. This course will be designed for the individual needs of Early Childhood Education majors. A maximum of four credits may be earned in this course.
Prerequisite: None
Credit: 1-4 semesters hours
Lecture: 1-4 *Lab: 0*

ECE 250 – Independent Study in Child Care and Development
IAI: None *1.2*
Independent Study in Child Care and Development is designed for the student who desires to conduct an individual project or research in an area of special interest based on personal goals and objectives. Course requirements are based on the nature of the subject under study. Repeat of this course for a total of three credits is permissible.
Prerequisite: Enrollment in the Early Childhood Education curriculum and consent of instructor or program coordinator.
Credit: 1-3 semesters hours
Lecture: 1-3 *Lab: 0*

Earth Science

- See Atmospheric Science
- See Geology
- See Physical Geography

Economics ECO

ECO 101 – Introduction to Economics
IAI: S3 900 *1.1*
This course is a general introduction to the nature and scope of economic analysis and its application to current issues. Topics covered include markets, competition, monopoly, inflation, unemployment and international economics.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ECO 103 – Contemporary Economic Issues
IAI: None *1.1*
This course is an introduction to the application of economic analysis to current economic problems and the consideration of policy alternatives. The economic approach will be applied to such issues as poverty, crime, healthcare, the environment, unemployment and inflation.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ECO 110 – Principles of Economics: Macro
IAI: S3 901 *1.1*
This course is an introduction to national income determination, its relationship to unemployment, inflation, and economic growth, and public policy alternatives used to achieve national economic goals.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

ECO 111 –
Principles of Economics: Micro
IAI: S3 902 *1.1*

This course is an introduction to product and resource pricing under various market conditions, and public policy alternatives for economic efficiency and equity in the marketplace.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

Education EDU

EDU 202 –
Children's Literature
IAI: None *1.1*

Children's Literature is designed to introduce and examine the many genres of children's literature and its uses within a diverse elementary school setting. Students will be introduced to traditional and contemporary children's authors. Students will also consider methods of selecting and evaluating children's books. Group activities and ongoing reading of a variety of children's books is an integral part of this course. This course is designed for students entering the teaching profession and for individuals with an interest in this area.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

EDU 204 –
Introduction to Teaching Reading for Elementary School Teachers
IAI: None *1.1*

This introductory course is designed to provide prospective teachers with a basic understanding of the reading process. This course introduces prospective teachers to various reading theories, trends in assessment and an array of instructional strategies for teaching reading in the elementary classroom.
Prerequisite: EDU 224 or consent of instructor
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

EDU 224 –
Introduction to Education
IAI: None *1.1*

Introduction to Education is an overview of the American Educational System as both a professional and public enterprise. Social, historical, and philosophical foundations give perspective to examination of current issues, policies, and trends in the field of education. These include cultural diversity, inclusion, organizations and structures, finance, curriculum and legislative/ legal issues. Completion of 15 hours in a classroom setting, accompanied by proper documentation, and initiation of a standards-based portfolio is required for successful completion of this course.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

EDU 234 –
Introduction to Technology for Teachers
IAI: None *1.1*

Introduction to Technology for Teachers covers basic technology used in learning in the K-12 classrooms with special emphasis on computer operations and concepts. The application of concepts and skills in making decisions concerning the social, ethical, and human issues related to technology and computing and the consequences of misuse is addressed. Course is designed for students entering the education profession.
Prerequisite: CIS 102 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EDU 244 –
Students With Disabilities in Schools
IAI: None *1.1*

Students With Disabilities in Schools is a survey course that presents the historical, philosophical and legal foundations of special education, as well as an overview of the characteristics of individuals with disabilities, the programs that serve them under the Individuals With Disabilities Education Act, and the diversity of the populations of individuals with disabilities.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

EDU 245 –
Special Education Practicum
IAI: None *1.1*

Special Education Practicum is an opportunity for students entering education and special education majors to work directly in the local agencies and schools with diverse populations under the supervision of the college. Students are expected to spend 30 hours working with individuals with disabilities in community and/ or school settings.
Prerequisite or Corequisite: EDU 244
Credit: 1 semester hour
Lecture: 0 *Lab: 30*

EDU 274 –
Elementary School Practicum
IAI: None *1.1*

This course is an opportunity for all elementary or special education majors to work directly in the local schools under the supervision of the college and cooperating teacher. Completion of 50 hours in a classroom setting, accompanied by proper documentation, in addition to other course requirements is necessary for successful completion of this course. This course is required for those who wish to transfer PSY 270 and PSY 271 to Northern Illinois University School of Education.
Prerequisite: EDU 224 & PSY 271
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

Electronic Engineering Technology EET

EET 100 –
Introduction to Electronics
IAI: None *1.2*

Introduction to Electronics presents a series of lecture demonstrations on electronics theory and practical applications. The course attempts to develop student interest in electronics and provides a general survey of the electronics area of study. Students learn to apply electronics in daily life, perform basic calculations, and develop measurement skills. Laboratory activities include working with a digital multimeter and soldering on a printed circuit board. This is a general survey course for non-electronics majors only.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EET 105 –
Introduction to Sustainable Energy
IAI: None *1.2*

Introduction to Sustainable Energy describes force, work, energy, and power as related to sustainable-energy systems. The fundamental operation of the electric power grid is described. The focus of this course is on small business and residential applications of distributed renewable-energy electrical-generation systems like small wind turbines, photovoltaic systems, and energy storage systems. Geothermal systems and active/ passive solar water heating that can reduce the consumption of electrical energy are also explained. Local, state, and national codes (e.g., the National Electric Code) are introduced. Other critical tasks such as performing site feasibility studies, energy audits, and developing energy-efficiency improvement measures are explained. This course helps you to prepare for renewable energy certification examinations and others offered by the Electronics Technicians Association, International.
Prerequisites: MTH 094 or MTH 096S or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EET 107 –
Introduction to Codes and Standards
IAI: None *1.2*

Introduction to Codes and Standards introduces you to the National Electric Code (NEC) and explains how this code relates to renewable energy systems – notably photovoltaics, small wind turbines, fuel cells, and other electrical-generation systems. The importance of other codes and standards at the national, state, and local levels is explained. This course helps you to prepare for renewable energy certification examinations and others offered by the Electronics Technicians Association, International."
Prerequisite: EET 142 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EET 125 – Electronic Fabrication Skills

IAI: None *1.2*

This laboratory course covers chassis wiring, cable assembly techniques, and proper handling precautions of the materials used in fabrication and repair of electronic equipment. Material Safety Data (MSD) sheets are explained. Proper hand tool usage and safety concepts are emphasized throughout the course. Surface Mount Technology projects will be constructed. Designing a Printed Circuit Board (PCBs) using CAD software is also covered.

Prerequisite: MTH 094 or MTH 096S
Credit: 2 semester hours
Lecture: 1 *Lab: 3*

EET 135 – Digital Electronics

IAI: EGR 932 *1.2*

Digital Electronics introduces the theory and application of digital logic circuits. Topics include basic combinational logic with applications and basic sequential logic with applications. Examples are presented using discrete logic integrated circuits and programmable logic devices (PLD's). Electrical considerations related to digital logic circuits are also addressed.

Prerequisite: Credit or concurrent enrollment in EET 141 and MTH 100, or MTH 125, or MTH 132, or consent of instructor.
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

EET 141 – DC/AC Circuits and Electronics I

IAI: None *1.2*

DC and AC Circuits and Electronics I develops techniques for circuit analysis and introduces electronic devices. Topics include: units and number notation, significant digits and rounding. Electrical charge, energy, current, voltage, resistance, and Ohm's law are studied. Electrical conductors and wire tables, fuses and circuit breakers, are covered. Voltage and current sources are defined. Solid-state physics, rectifier and zener diodes, thermistors, positive tempco resistors, and optoelectronic devices are presented. Kirchhoff's current and voltage laws including their application in the mesh and nodal analysis techniques are examined. The sine wave and diode application circuits are covered. Superposition, Thevenin's theorem, and Norton's theorem are used. Bipolar junction transistors are introduced including their use as amplifiers and switches. Capacitors, inductors, energy storage and transient analysis are included. Laboratory activities include learning to use the digital multimeter, DC power supplies, signal generators, and the oscilloscope. Laboratory activities also include using EDA (Electronic Design Automation) via Multisim. Laboratory documentation employing Microsoft Word and Excel is also explained.

Prerequisite: Credit or concurrent enrollment in MTH 120 (or MTH 100, MTH 125, or MTH 132) or consent of instructor.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

EET 142 – DC/AC Circuits and Electronics II

IAI: None *1.2*

DC/AC Circuits and Electronics II is a continuation of EET 141. The phasor concept is introduced including polar/rectangular conversions and phasor arithmetic. Reactance, impedance, susceptance, and admittance are covered. The universal amplifier model and decibels are used. BJT biasing and the common-emitter amplifier are studied. Field effect transistors are explained along with the common-source amplifier. The operational amplifier and its use as an inverting, non-inverting, and differential amplifier are covered. High- and low-pass filters are examined.

Prerequisite: EET 141 and MTH 100 or MTH 125 or MTH 132; or consent of instructor.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

EET 168 – Electronic Engineering Technology Internship

IAI: None *1.2*

EET Internship requires a supervised experience in the field of electronic engineering technology using a cooperative training plan agreed to by the instructor, participating firm, and student. The student must submit an application to the instructor prior to mid-term of the previous semester and requires consent of the instructor or the Dean. Variable and repeatable credit up to 6 credit hours may be earned. To comply with Illinois Community College Board (ICCB) requirements, the number of clock hours spent at the firm must comply with the table below. The ICCB will permit 62.5 clock hours per credit for non-clinical internships. If EET 168 is taken for 2 credits, then we must document 125 clock hours for the experience.

Credits	Clock Hours	15 Weeks (Fall or Spring)	8 Weeks (Summer)
1	62.5	4.2 Hrs/Wk	7.9 Hrs/Wk
2	125	8.4 Hrs/Wk	15.7 Hrs/Wk
3	187.5	12.5 Hrs/Wk	23.5 Hrs/Wk
4	250	16.7 Hrs/Wk	31.3 Hrs/Wk
5	312.5	20.9 Hrs/Wk	39.1 Hrs/Wk
6	375	25 Hrs/Wk	46.9 Hrs/Wk

Prerequisite: Current enrollment in the Electronic Engineering Technology curriculum, completion of at least 20 credits in EET courses, and sophomore class standing.
Credit: 1-6 semester hours
Lecture: 0 *Lab: See Table Above*

EET 190 – Sustainable Electrical Energy Generation

IAI: None *1.2*

Sustainable Electrical Energy Generation describes the operation of photovoltaic (PV) systems comprised of solar modules, batteries, battery chargers, and inverters to produce power-grid-quality ac voltage. Wind turbines are also studied including generators, alternators, rectification, inverters, and resistive loading during periods of light loading. Fuel cell characteristics, control and monitoring are also explored. The integration of these three technologies is also investigated. Microhydro generation of electrical power is introduced. Safety considerations and electrical codes are emphasized throughout the course. This course helps you to prepare for renewable energy certification examinations and others offered by the Electronics Technicians Association, International.

Prerequisite: Credit in EET 141 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EET 219 – Electric Motors, Controls, and Variable Speed Drives

IAI: None *1.2*

Electric motors, controls, and variable speed drives (VSD) provides a review of linear and rotational motion, and energy conversions. The basics of electromagnetism, DC motors and AC single-phase and polyphase motors are studied. NEMA motor classifications A, B, C, and D are explained. Power electronic switches are covered including thyristors and IGBTs. The block diagram of the variable speed drive is studied and the synchronized rectifier stage, DC link, inverter stage, and protective functions are studied. The basic characteristics of PID control are covered and its application to variable speed drives. The variable speed drives offered by various manufacturers including Danfoss, Schneider, an Eaton Cutler-Hammer are contrasted.

Prerequisite: Credit in EET 240 and MET 162 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EET 239 – Programmable Logic Controllers (PLCs)

IAI: None *1.2*

Programmable Logic Controllers (PLCs) introduces the application and programming of powerful and flexible devices for industrial control systems. Topics include: ladder logic, PLC programming, program documentation, and PLC input/output requirements. Laboratory exercises include hands-on work with a small PLC system to complete PLC projects.

Prerequisite: EET 135 and EET 142; or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

COURSE DESCRIPTIONS

EET 240 – DC/AC Circuits and Electronics III

IAI: None *1.2*

DC/AC Circuits and Electronics III is a continuation of EET 142. The use of phasors to describe ac circuits is used for impedance and admittance calculations.
The frequency response of an amplifier system is described. Active filters are introduced. Negative feedback and frequency compensation to avoid oscillations are explored. Sinusoidal oscillators are examined. AC power topics including true power, reactive power, apparent power, and power factor correction are covered. Class A, AB, and D power amplifiers are studied. Solid-state power switches are described. Linear and switching dc power supplies are studied. Electronic Design Automation is used extensively to simulate the circuits constructed in the laboratory. Laboratory activities include using oscilloscopes and signal generators. Students will be expected to use Microsoft Word and Excel to prepare their laboratory reports.
Prerequisite: EET 142 or consent of instructor.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

EET 242 – Sensors, Transducers, and Signal – Conditioning

IAI: None *1.2*

Sensors, Transducers, and Signal-Conditioning presents all of the components found in a modern instrumentation system including sensors and transducers, signal conditioning, data collection and display. Sensors for various physical quantities are discussed, including: temperature, pressure, strain, acceleration, and displacement. Laboratory activities are coordinated with the lecture topics.
Prerequisite: MET 162 and EET 240; or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EET 245 – Control Systems

IAI: None *1.2*

Control Systems introduces basic industrial control systems. Topics include: on-off control, several forms of proportional analog control, digital control, and fuzzy logic control. Related topics such as feedback sensors and stability concerns are studied. Laboratory activities are coordinated with the lecture topics.
Prerequisite: MET 162 and EET 240 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EET 251 – Microcontrollers and Interfacing

IAI: None *1.2*

Microcontrollers and Interfacing introduces the student to microcontroller architecture and C programming for embedded control applications. The course deals with the logical development of programs with appropriate software documentation, and the associated hardware interfacing. Professional programming and debugging tools are used throughout the course. Laboratory work includes writing programs and building hardware for various applications.
Prerequisite: EET 135 and EET 142 or consent of instructor.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

EET 254 – Robotics and Automated Systems

IAI: None *1.2*

Robotics and Automated Systems introduces the student to the mechanical, electrical, and electronic components used in robotics and other automated systems. The student will learn the essential terminology used in robotics and the basic operation of robots in automated manufacturing. The course deals with analog-to-digital (ADC), and digital-to-analog (DAC) conversion for interfacing of the components. The students will be introduced to the programming software used for automated systems. Laboratory work includes interfacing the various components properly, and writing programs, and the robot programming language in group and/or individual projects. The course provides the opportunity for a nationally-recognized Fanuc certification.
Prerequisite: EET 141 and MET 162 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EET 261 – Advanced Microcontrollers

IAI: None *1.2*

Advanced Microcontrollers presents microcontrollers for solving basic control problems. Hardware interfacing and software design are studied. The instruction centers on the more popular low-cost microcontrollers. Laboratory activities are coordinated with the lectures and include one or more design projects.
Prerequisite: EET 251
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EET 275 – Wireless Electronics

IAI: None *1.2*

Wireless Electronics introduces the basic principles of electronic communications, radio frequency identification (RFID), and remote passive and powered sensors such as those based on surface acoustical wave (SAW) devices. Resonant circuits are studied. Amplitude-, frequency-, and phase-modulation and demodulation techniques are covered. Wireless devices defined by IEEE 802 and XBee are studied. Transmission lines and antennas are also explored.
Prerequisite: EET 240 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EET 277 – Geothermal, Solar Heating, and Lighting

IAI: None *1.2*

Geothermal, Solar Heating, and Lighting introduces student to the use of energy efficiency and conservation, and the application of renewable energy sources. Geothermal systems for heating and cooling are studied. Various earth loops including horizontal, vertical, pond/lake, and open well-water systems are discussed. Air-source, ground-source, and absorption heat pumps for heating and cooling are explained. Solar thermal systems for heating and cooling are studied. Light Emitting Diode (LED) lighting systems are examined. This course helps you to prepare for renewable energy certification examinations and others offered by the Electronics Technicians Association, International.
Prerequisite: Credit or concurrent enrollment in EET 105 or consent of instructor..
Prerequisites: Credit in EET 190 and MET 162, and credit or concurrent enrollment in EET 240, or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EET 282 – EET Capstone Project

IAI: None *1.2*

EET Capstone Project is a project-based experience that allows the student to use basic and advanced principles covered in other courses. Students will work individually or in teams to select a project with the consent of the faculty advisor. Project schedule management is emphasized. Project parameters and specifications will be developed. A budget will be established. Approaches to final testing, in order to verify that specifications have been met, will be addressed.
Prerequisite: EET 240 and EET 251 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EET 285 – Introduction to Digital Signal Processing

IAI: None *1.2*

Introduction to Digital Signal Processing presents fundamental sampled data systems and digital signal processing (DSP) as an alternative to traditional analog techniques. Topics include: Nyquist criteria, convolution and transform techniques, Infinite Impulse Response (IIR) digital filters, and Finite Impulse Response (FIR) digital filters. The required mathematics is covered. Laboratory activities include using signal generators, oscilloscopes, and commercial DSP evaluation board and software.

Prerequisite: EET 240 and EET 251 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EET 298 – EET Seminar

IAI: None *1.2*

EET 298 is a weekly discussion regarding current events in the electronics industry. Topics may include sensors, integrated circuits, microcontrollers, robotics, alternative energy, power electronic, modeling, and simulation. Students will select topics of interest, research the topics, prepare a written report, and lead a class discussion.

Prerequisite: EET 240 and EET 251 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

EET 299 – Special Topics in Electronic Engineering Technology

IAI: None *1.2*

Special Topics in Electronic Engineering Technology explores specific applications, skills, or interest in modern electronics technology. A special topic requires: adequate and available materials on a specific electronics-related issue, a comprehensive course outline, instructor expertise, student and community interest, and ability to increase skill and/or knowledge in electronic engineering technology. Variable and repeatable credit up to six credit hours may be earned.

Prerequisite: Determined by the special topic.
Credit: 1-6 semester hours
Lecture: 1-6 *Lab: 0-4*

Engineering EGR

EGR 101 – Introduction to Engineering

IAI: None *1.2*

Introduction to Engineering is a study of engineering and technological systems. The course explores various engineering disciplines, the role of the engineer in society, the engineering approach to problem solving and the engineering design process. Laboratory activities involve reverse-engineering products to find out how they are designed and manufactured.

Prerequisite: None
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

EGR 135 – Engineering Graphics/CAD

IAI: EGR 941

Engineering Graphics/CAD is an introduction to engineering graphics and design. Topics include design problems, sketching, dimensioning, tolerancing, multi-view orthographic representations, auxiliary views, section views, and working drawings, 3-D solid modeling software used for reverse engineering, part generation, prototyping, and engineering analysis. (**SolidWorks** will be used as CAD software in this course.)

Prerequisite: MTH 094 or MTH 096S
Credit: 4 semester hours
Lecture: 2 *Lab: 4*

EGR 206 – Statics

IAI: EGR 942 *1.1*

Statics is an analysis of real force systems by applying the principles of equilibrium to particles, rigid bodies, simple structures and fluids. Distributed forces, determination of centroids, moments of inertia, analysis of structures, virtual work, friction, and related topics are presented.

Prerequisite: MTH 235 with C or higher.
Corequisite: PHY 215 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

EGR 207 – Dynamics

IAI: EGR 943 *1.1*

Dynamics is an analysis of motion of particles and the relationship between forces acting on bodies and the changes in motion produced. Particle and planar kinematics, principles of force, mass and acceleration, work and energy, vibration, impulse and momentum, and related topics are presented.

Prerequisite: EGR 206 and PHY 215
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

EGR 221 – Elementary Mechanics of Deformable Bodies

IAI: EGR 945 *1.1*

Elementary Mechanics of Deformable Bodies studies the relationship between external forces and the stresses and deformations they produce in a deformable body for both elastic and inelastic behavior. Consideration is given to members subjected to tension and compression, torsion, and bending related to: loading and deflection of beams and shafts, buckling of columns, repeated loads, combined stresses, analysis of stress and strain, Mohr's Circle, and related topics.

Prerequisite: EGR 206
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

EGR 231 – Engineering Circuit Analysis

IAI: EGR 931L *1.1*

Engineering circuit analysis provides an introduction to electric circuits. Circuit topologies including series, parallel, series-parallel, and non-planar circuits are explained. Fundamental circuit elements are studied including resistance, capacitance, self- and mutual-inductance, constant-voltage sources, constant-current sources, and controlled sources. Magnetism as it relates to self- and mutual-inductance is described. Basic laws and theorems are applied. Specifically, Ohm's law, Kirchhoff's Voltage Law and Kirchhoff's Current Law are described and applied. Mesh and nodal analysis are used. DC and sinusoidal steady-state circuits using the phasor concept are introduced. Time-domain analysis of R-L-C circuits is covered as well as an introduction to Laplace transforms.

Prerequisite: MTH 235 with minimum grade of "C", PHY 215, and credit or concurrent enrollment in MTH 236 and PHY 225, or consent of instructor.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

EGR 250 – Digital Electronics

IAI: EGR 932L *1.1*

Digital Electronics provides an introduction to computer engineering. This course explores combinational logic and Boolean algebra. Logic circuit design and simplifications using Karnaugh maps is studied. Sequential logic including registers, counters, and state machines are covered. State transition diagrams are used to help simplify sequential logic problems. The student will learn how to analyze, design, debug, and implement digital logic solutions.

Prerequisite: Credit in EGR 231 with a "C" or better grade or consent of instructor.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

COURSE DESCRIPTIONS

English - Developmental ENG

ENG 082 – Foundations of Writing
IAI: None *1.4*
In Foundations of Writing, students develop skills in writing and revising brief compositions of a variety of types. Students read and respond to the perspectives of others in their writing, and they attend to the needs of readers by learning to edit and proofread their own work.
Coprerequisite: Students must be concurrently enrolled in RDG 080 or RDG 092 based on the results of the reading placement test.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

ENG 097 – Essentials of Writing
IAI: None *1.4*
In Essentials of Writing, students practice effective strategies for developing multi-paragraph compositions of a variety of types, often in response to their reading. Students revise and edit their own work, in order to prepare for writing in their college courses.
Prerequisite: None
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

ENG 099 – Introduction to College Writing
IAI: None *1.4*
In Introduction to College Writing, students learn to write focused, coherent, multi-paragraph essays in both personal and persuasive genres. In addition, students read a variety of texts, both to develop critical thinking skills and to provide a context for some writing assignments. Attention is devoted to grammar and usage within the context of students' writing. Students write 12-16 pages of revised prose during the course.
Prerequisite: Students scoring below the cut-off point in the English placement test are required to take ENG 099.
A grade of "C" or better is required in this course to advance to ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

English ENG

ENG 101 – Composition I
IAI: C1 900 *1.1*
In Composition I, students employ flexible strategies to develop focused, purposeful essays that demonstrate college-level thinking. Students write in a variety of textual forms, including persuasive essays in the latter half of the semester, and learn to address the needs of audiences by increasing their awareness of the rhetorical situations in which they write. Students learn to develop and support their claims effectively, to position their ideas in relation to those of others, and to edit their writing carefully. Students write 16-24 pages of revised prose during the course.
Prerequisite: Sufficiently high placement test score; or a grade of "C" or better in ENG 099
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 103 – Composition II
IAI: C1 901R *1.1*
In Composition II, the second half of a two-semester writing sequence, students conduct research on academic topics, advance extended arguments, and use sources appropriately and effectively. In doing so, they develop the habits of mind associated with sound scholarship. Students write 16-24 pages of revised prose during the course, including documented multi-source writing in one or more papers for a combined total of at least 2,500 words in final version.
Prerequisite: A grade of "C" or higher in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 107 – Grammar and Usage Review
IAI: None *1.2*
Grammar and Usage Review is a review of the conventions and standards in modern written English. Problems most frequently encountered in academic, business, and industrial writing are addressed. The emphasis is on functional applications of contemporary rules and attitudes toward language and intensive editing and proofreading practice. This course does not take the place of ENG 099 and cannot be used as a prerequisite for any other English course.
Prerequisite: None
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

ENG 108 – Introductory Creative Writing
IAI: None *1.1*
Introductory Creative Writing gives the student practice in the creative writing skills needed for effective expression in a variety of genres (e.g., fiction, drama, poetry). Students will draft varied works of creative writing, use critical terminology in the discussion of creative works, and participate in revision processes. A minimum of 25 pages of completed work is recommended.
Prerequisite: A grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 110 – Introduction to Technical Writing
IAI: None *1.2*
In Introduction to Technical Writing, students, individually and collaboratively, will employ various processes to produce professional caliber technical documents. Throughout the semester students will produce and analyze a number of common technical writing genres, such as: emails, letters, resumes, memos, reports, proposals, technical descriptions, technical definitions, instructions/procedures, and proposals. Students will work toward understanding how to analyze and react to rhetorical situations each genre and writing situation presents, including issues of audience, organization, visual design, style, and the material production of documents. Students will complete research processes, selecting and interacting with sources, culminating in the production of documented, multi-source writing in one or more formal papers totaling at least 2,500 words. During the course students will write a minimum of 16–24 pages.
Prerequisite: ENG 101 with a grade of "C" or higher, or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 200 – Language, Power, and Public Life
IAI: H9 900 *1.1*
Language, Power, and Public Life is an introduction to rhetoric as an intellectual force shaping public life. This course studies a selection of rhetorical theories and introduces students to key interdisciplinary approaches to the study of language from the social sciences, the sciences, and the humanities. Students will analyze the ways in which language and public life are interconnected by considering various historical and contemporary case studies.
Students write 16-24 pages of revised prose during the course.
Prerequisite: ENG 101 with a grade of "C" or higher.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 204 – Introduction to Linguistics
IAI: None *1.1*
Introduction to Linguistics is a practical investigation into many facets of the English language in daily use. Topics include phonetics, phonology, morphology, syntax, semantics, pragmatics, dialectology, and history of the English language.
Prerequisite: A grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 206 –
Creative Writing: Poetry
IAI: None *1.1*
Creative Writing: Poetry focuses on students' understanding of the structure and elements of poetry and the writing process. Students will draft varied works of poetry, use critical terminology in the discussion of poetic works, and participate in revision processes. A minimum of 15 pages of completed work is recommended.
Prerequisite: A grade of "C" or higher in ENG 101, or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 207 –
Creative Writing: Fiction
IAI: None *1.1*
Creative Writing: Fiction focuses on students' understanding of the structure and elements of fiction and the writing process. Students will draft varied works of fiction, use critical terminology in the discussion of fictional works, and participate in revision processes. A minimum of 30 pages of completed work is recommended.
Prerequisite: A grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 208 –
Creative Writing: Screenwriting
IAI: None *1.1*
Creative Writing: Screenwriting focuses on students understanding the structure and elements of screenwriting and the writing process. Students will draft varied scripts, use critical terminology in the discussion of screenwriting works, and participate in revision processes. A minimum of 30 pages of completed work is recommended.
Prerequisite: ENG 101 with a grade of "C" or higher.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 209 –
Creative Writing: Literary Non-Fiction
IAI: None *1.1*
Creative Writing: Literary Non-Fiction focuses on students understanding the structure, forms and elements of literary non-fiction and the writing process. Students will draft varied works of literary non-fiction, use critical terminology in the discussion of non-fiction works, and participate in revision processes. A minimum of 30 pages of completed work is recommended.
Prerequisite: A grade or "C" or higher in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 210 –
Technical Writing
IAI: None *1.2*
Technical Writing includes document design, visual and graphic elements, word processing/desktop publishing methods, and print production. Typical assignments include articles for publication, proposals, brochures, newsletters, manuals, and media presentations based on students' majors or work experiences.
Prerequisite: ENG 110 or consent of the instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 220 –
Technical Writing Internship
IAI: None *1.2*
Technical Writing Internship provides approximately 150 hours of writing experience on special projects appropriate to the student's major and work experience. The internship provides further development and exposure to technical writing through supervised field experiences.
Prerequisite: ENG 110, ENG 210 (or concurrent enrollment), and consent of instructor.
Credit: 3 semester hours
Lecture: 1 *Lab: 10*

Fire Science FRE

FRE 101 –
Introduction to Fire Protection
IAI: None *1.2*
Introduction to Fire Protection provides an overview to fire protection, career opportunities in fire protection, and related fields; philosophy and history of fire protection/service; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service, fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRE 102 –
Fire Apparatus Engineer
IAI: None *1.2*
Fire Apparatus Engineer provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRE 103 –
Hazardous Materials Operations
IAI: None *1.2*
The Hazardous Materials Operations course provides the student with the basic skills needed to evaluate and work defensively at a hazardous materials incident. Included are the classifications of hazardous materials, types of chemicals, methods of transportation and laws that regulate their use.
Prerequisite: FRE 101 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRE 106 –
Rescue Practices
IAI: None *1.2*
Rescue Practices explores life-saving practices related to the operations of the fire company as well as the preparedness of the fire department to meet the needs of special rescue situations. The course provides an overview of water rescue, technical rescue, and vehicle extrication.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRE 112 –
Vehicle/Machinery Rescue Operations
IAI: None *1.2*
Vehicle/Machinery Rescue Operations is designed to acquaint the student with techniques used in auto and machinery extrication. Emphasis will be on safety of personnel at emergency incidents, scene size-up, and management of the emergency scene, as well as function of the tools utilized in vehicle and machinery extrication. This course meets the requirements as defined by the Office of the Illinois State Fire Marshal, and NFPA 1670.
Prerequisite: FRE 101 or consent of instructor and OSFM – Technical Rescue Awareness Certificate.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

FRE 118 –
Building Construction for Fire Protection
IAI: None *1.2*
Building Construction for Fire Protection introduces the components of building construction that relate to fire and life safety. The focus of this course is on firefighter safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies.
Prerequisite: None
Corequisite: FRE 101
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

FRE 180 –
Essentials of Firefighting I
IAI: None *1.2*
Essentials of Firefighting I introduces students to basic firefighting skills and equipment. The class includes the following subject areas; orientation, fire behavior, building construction, safety, communications, self-contained breathing apparatus, fire extinguishers, and ropes and knots. This course, combined with Essentials of Firefighting II and III, provide the student with the required training to sit for the Office of the Illinois State Fire Marshal Written Exam for Basic Operations Firefighter.
Prerequisite: FRE 101
Corequisites: FRE 181, 182
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

FRE 181 –
Essentials of Firefighting II
IAI: None *1.2*
Essentials of Firefighting II is an intermediate firefighting skills course that provides the student with an understanding of the principles behind the following subject areas: ladders, hose and appliances, nozzles/ streams, water supply, forcible entry, and ventilation. The course, when combined with Essentials of Firefighting I and III, provide the student with the required training to sit for the Office of the Illinois State Fire Marshal Written Exam for Basic Operations Firefighter.
Prerequisite: FRE 101
Corequisites: FRE 180, 182
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

FRE 182 –
Essentials of Firefighting III
IAI: None *1.2*
Essentials of Firefighting III is an advanced firefighting skills course that combines both previous courses and introduces practical applications. Topics presented are: search and rescue, fire control, loss control, protecting evidence, fire detection/ alarm and suppression systems, prevention/public education, wild land/groundcover firefighting, and firefighter survival. This course, when combined with Essentials of Firefighting I and II, provide the student with the required training to sit for the Office of the Illinois State Fire Marshal Written Exam for Basic Operations Firefighter.
Prerequisite: FRE 101
Corequisites: FRE 180, 181
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

FRE 206 –
Management I
IAI: None *1.2*
Management I is an introduction to the organization and management of a fire department and the relationship of government agencies to the fire service. Emphasis is placed on fire service leadership from the perspective of the company officer.
Prerequisite: FRE 101
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRE 207 –
Management II
IAI: None *1.2*
Management II is an examination of small group communication and conflict resolution techniques. Topics include written communication skills, verbal and non-verbal communication techniques, handling conflicts, small group processes and the respective dynamics associated with the same, and group cohesiveness and personnel morale.
Prerequisite: FRE 206
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRE 208 –
Fire Prevention Principles
IAI: None *1.2*
Fire Prevention Principles provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRE 210 –
Fire Investigation
IAI: None *1.2*
Fire Investigation provides the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the firesetter, and types of fire causes.
Prerequisite: FRE 101
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRE 216 –
Tactics and Strategy I
IAI: None *1.2*
Tactics and Strategy I is designed for fire service personnel who may be responsible for one or two companies at emergency incidents. Company officer leadership, incident safety, pre-fire planning, building construction, firefighting tactics, engine company and truck company operations.
Prerequisite: FRE 101 or consent of the instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRE 217 –
Tactics and Strategy II
IAI: None *1.2*
Tactics and Strategy II is designed for fire service personnel who may be responsible for one or two companies at emergency incidents. Company officer leadership, incident safety, pre-fire planning, building construction, firefighting tactics, engine company and truck company operations.
Prerequisite: FRE 216
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRE 218 –
Instructor I
IAI: None *1.2*
Instructor I will prepare the student to become a fire service instructor. The course is designed to give the student the knowledge and ability to teach from prepared materials. Topics covered include: communications, concepts of learning, instruction and evaluation techniques, the instructor's roles and responsibilities and use of instructional materials.
Prerequisite: FRE 101 or consent of the instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRE 219 –
Instructor II
IAI: None *1.2*
Instructor II places emphasis on teaching formalized lessons from materials prepared by the fire service instructor. Course coverage includes: writing performance objectives, developing lesson plans, preparing instructional materials, constructing evaluation devices, demonstrating selected teaching methods, training records and reports, and identification of reference resources.
Prerequisite: FRE 218
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRE 220 –
Management III
IAI: None *1.2*
Management III is designed to provide the fire officer, who is in charge of multiple fire companies or stations, with information and skills in officer supervision and administrative functions. Subject areas covered will include planning and decision-making, finance and budgeting, risk management, public relations and the news media.
Prerequisite: FRE 207
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRE 223 –
Emergency Medical Technician
IAI: None *1.2*
Emergency Medical Technician course covers emergency care, handling, and extrication of the critically ill and injured. Topics covered include control of hemorrhage, treatment of shock, fractures, soft tissue injuries, burn victims, poisoning, emergency childbirth, packing and transportation of the sick and injured.
Prerequisite: None
Credit: 9 semester hours
Lecture: 7 *Lab: 4*

FRE 225 – Management IV
IAI: None *1.2*
Management IV course focuses on analyzing and organizing personnel assignments, developing personnel policies, reviewing and approving capital budgets and fiscal financing, implementing public relations programs and management systems for the fire service. Advanced personnel management, organizing health and safety programs and labor relations are other areas of focus in this upper level management course.
Prerequisite: FRE 220
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRE 240 – Fire Protection Internship
IAI: None *1.2*
Fire Protection Internship provides the student with an opportunity to apply and expand upon newly-acquired skills in the fire service work environment. This course is carried out cooperatively between the student and the host facility. Periodic review sessions will be held to assess the student's progress. Participation requires an interview and selection process.
Prerequisite: FRE 182
Corequisite: FRE 206, 208
Credit: 1-6 semester hours
Lecture: 0 *Lab: 1-6*

FRE 250 – Special Topics in the Fire Service
IAI: None *1.2*
Special Topics in the Fire Science is designed to allow a student to apply other learning experiences toward credit at Rock Valley College. National Fire Academy courses, Illinois Fire Service Institute courses, workshops and seminars are examples of experiences that may be reviewed for credit. A total of four credits will be allowed for this course.
Prerequisite: Enrollment in the Fire Science curriculum.
Credit: 1-4 semester hours
Lecture: 1-4 *Lab: 0*

Fitness, Wellness, and Sport FWS

FWS 110 – Fitness Walking
IAI: None *1.1*
Fitness Walking provides individuals with a low-impact alternative to jogging as a means of improving cardiovascular fitness and overall health.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 113 – Low Impact Aerobics
IAI: None *1.1*
Low Impact Aerobics develops and improves strength, flexibility, and cardiovascular endurance.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 116 – Step Aerobics
IAI: None *1.1*
Step Aerobics is designed to stimulate and initiate aerobic-fitness awareness through broadening knowledge and experience of movements of the body through the use of the STEP.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 119 – Cardio Kickboxing
IAI: None *1.1*
Cardio Kickboxing is designed to provide individuals with an aerobic workout. Tae Kwon Do and boxing skills are incorporated into this high-energy exercise session.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 121 – Cardiovascular Fitness & Conditioning
IAI: None *1.1*
Cardiovascular Fitness & Conditioning focuses on a variety of modes of exercise intended to develop cardiovascular fitness. Emphasis will be placed on understanding basic program design, implementation, and execution of cardiovascular exercises.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 126 – Beginning Weight Lifting
IAI: None *1.1*
Beginning Weight Lifting introduces basic and intermediate strategies to developing an appropriate individual strength and resistance program. Emphasis will be placed on understanding basic program design, implementation, and execution of basic resistance exercises.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 127 – Advanced Weight Lifting
IAI: None *1.1*
Advanced Weight Lifting provides the student with an in-depth study of weightlifting techniques, strategies, and theories. This course will focus on free weights and advanced lifting strategies that are currently used.
Prerequisite: FWS 126
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

FWS 131 – Basketball and Touch Football
IAI: None *1.1*
Basketball and Touch Football acquaints the student with the skills, strategies, and rules of basketball and touch football.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 133 – Power Volleyball
IAI: None *1.1*
Power Volleyball introduces the student to the following fundamentals of power volleyball: the forearm pass, the floater serve, the overhead set, spiking, blocking, the five-one offensive and two-four defensive patterns.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 135 – Golf
IAI: None *1.1*
Golf is designed for both the beginning and experienced players. Students will develop the fundamental skills, techniques, and strategy through practice and playing on the golf course.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 137 – Tennis
IAI: None *1.1*
Tennis is designed to develop and improve the proper skills and fundamentals necessary to enjoy the game of tennis through practice and playing experiences on tennis courts.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 139 – Soccer
IAI: None *1.1*
Soccer acquaints the beginning student with the fundamental soccer skills of dribbling, passing, kicking, tackling, trapping, heading and goalkeeping. Simple offensive and defensive strategies will be emphasized.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

COURSE DESCRIPTIONS

FWS 140 –
Basic Physical Defense for Women
IAI: None *1.1*
This course is a women's only self-defense and risk reduction education program designed to teach realistic ways to lessen the chances of and defend against physical assault.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 141 –
Hiking, Cycling, and Outdoor Activities
IAI: None *1.1*
Hiking, Cycling, and Outdoor Activities is designed to acquaint the student with these activities. Emphasis will be on an appreciation of nature and enjoying the out-of-doors via a fitness activity. The class will be traveling to various biking and hiking sites.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 143 –
Snorkeling
IAI: None *1.1*
Snorkeling is offered in connection with other college travel classes visiting warm water locations. This course is designed to introduce the student to a variety of open water and reef snorkeling experiences by visiting and exploring the numerous sites available in the area.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 145 –
Scuba Diving
IAI: None *1.1*
Scuba Diving introduces the student to the skills and knowledge necessary for PADI (Professional Association of Diving Instructors) Open Water Diver certification.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 146 –
Open Water Scuba
IAI: None *1.1*
Open Water Scuba is offered in connection with other college travel classes visiting a warm water location. PADI certification may be started by completing the necessary classroom and pool sessions prior to departure. If desired, final checkout dives may be completed on site in the warm open water. For those with PADI certification, credit is earned by completing a minimum of eight open water dives.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 150 –
Shoto-kan Karate
IAI: None *1.1*
Shoto-kan Karate is designed to introduce the student to the fundamentals of self-defense. Students will learn the history and philosophy of Shoto-kan Karate as well as develop the basic skills of kicks, blocks and self-defense holds and releases.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 151 –
Tae Kwon Do
IAI: None *1.1*
Tae Kwon Do is an introduction to a system of techniques for self-defense and counter-attack by the unarmed.
The course promotes skill development in basic Tae Kwon Do techniques.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 176 –
Intercollegiate Sports I
IAI: None *1.1*
Intercollegiate Sports I is a course for students who are
members of one of the college's intercollegiate team sports programs. These include: women's tennis, basketball, softball, volleyball, and soccer; men's baseball, basketball, golf, tennis, and soccer. Students may earn a maximum of two credits for any combination of FWS 176 and FWS 177.
Prerequisite: Permission from respective coach is required to enroll in this class.
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 177 –
Intercollegiate Sports II
IAI: None *1.1*
Intercollegiate Sports II is a course for students who are members of one of the college's intercollegiate sports programs. These include: women's tennis, basketball, softball, volleyball, and soccer; men's baseball, basketball, golf, tennis, and soccer. Students may earn a maximum of two credits for any combination of FWS 176 and FWS 177. Students may not enroll in FWS 177 without completing FWS 176.
Prerequisite: Permission from respective coach is required to enroll in this class.
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

FWS 220 –
Introduction to Career Opportunities in Physical Education, Exercise Science, and Sport
IAI: None *1.1*
Introduction to Career Opportunities in P.E., Exercise Science, and Sport provides an opportunity for the student to examine career opportunities in physical education, coaching, sports medicine and closely-related fields.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 221 –
Intro to Teaching Physical Education
IAI: None *1.1*
The Introduction to Teaching Physical Education course is designed to acquaint the student with the physical, psychological and sociological foundations of elementary, middle, and high school physical education. An emphasis is placed on planning and applying pedagogical strategies.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 223 –
Physical Education for the Elementary School Teacher
IAI: None *1.1*
Physical Education for the Elementary School Teacher introduces the pre-service teacher to content and methods of teaching age-appropriate physical activities to children, in grades K-6. There will be special emphasis placed on appropriate pedagogical techniques in assessing, designing, and instructing a well-designed and meaningful physical education program.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 225 –
Principles of Adapted Physical Education
IAI: None *1.1*
Principles of Adapted Physical Education acquaints the student with the principles of conducting adaptive recreational and physical education programs. It is an in-depth study of the background and foundations of disabilities in the special student and adult.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 231 –
Contemporary Health Issues
IAI: None *1.1*
Contemporary Health Issues provides health information to students so they can make intelligent decisions concerning their health and the health of significant others.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 233 –
Community Health
IAI: None *1.1*
Community Health is designed to provide the student with an in-depth study of community health organizations issues such as population growth, environment, poverty, medical care and disease.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 235 –
Alcohol and Drug Education
IAI: None *1.1*
Alcohol and Drug Education is designed to educate the student about issues relating to all drugs and chemicals used in today's society. Students will learn about prescription drugs, over-the-counter drugs, illicit drugs, and controversial issues surrounding the usage of various forms of chemicals relevant to current issues.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 236 –
Human Sexuality
IAI: SW 912 *1.1*
Human Sexuality introduces topics of human sexual functioning including the physiology, sociology, philosophy and morality of human sexual practices and of love.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 237 –
Nutrition for Optimum Living
IAI: None *1.1*
Nutrition for Optimum Living explores the function of nutrients and nutrition as it affects health. Attention is given to understanding the importance and interrelationship of the nutrients to achieving optimal health.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 240 –
Introduction to Athletic Training and Sports Medicine
IAI: None *1.1*
Introduction to Athletic Training and Sports Medicine stresses principles and techniques for the prevention, recognition, treatment and rehabilitation of common athletic injuries. Includes discussion of the team approach of sports medicine in ensuring quality care to the athlete. Supportive taping and wrapping, duties and responsibilities of the athletic trainer, and operations procedure for athletic trainers are also covered. Students are required to complete one hour of independent lab.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

FWS 243 –
First Aid, General Safety, CPR & AED
IAI: None *1.1*
The First Aid and General Safety portion of this course is designed to prepare the student to make appropriate decisions regarding first aid care and provide the skills necessary to provide appropriate care of a victim of injury or sudden illness. The CPR and AED training portion of the course is designed to train individuals to recognize and react to emergency situations and to provide are for respiratory and cardiac emergencies. Students will be trained in the practical skills of CPR and the use of an AED. Students successfully completing the course requirements will earn American Red Cross Certification in Adult, Infant and Child First Aid, CPR & AED.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 250 –
Introduction to Sport Management
IAI: None *1.1*
Introduction to Sport Management will introduce the student to the expanding field of sport management. An overview of the field and specific career opportunities will be covered.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 253 –
Introduction to Coaching
IAI: None *1.1*
Introduction to Coaching covers the basic principles and practices of coaching by examining sport philosophy, pedagogy, physiology, management, and sports medicine.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 254 –
ASEP Sport First Aid and CPR
IAI: None *1.1*
ASEP Sport First Aid and CPR is the second course in a two sequence designed to prepare students for the American Sport Effectiveness Program (ASEP) exam. This course acquaints the student with the concepts and theories of sport first aid. This course will also train students in CPR, with practical and classroom components.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 255 –
Sociology of Sport
IAI: None *1.1*
Sociology of Sport is designed to educate students about the relevance of sport in modern society, the impact of sport on society and the influence which cultural institutions have on sport.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 256 –
History of Physical Education & Sport
IAI: None *1.1*
History of Physical Education & Sport is the historical development of the physical education field from ancient times to present. The course includes social, political, economic, military, and religious effects on physical education and sports and vice versa.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 258 –
Sport and Exercise Psychology
IAI: None *1.1*
Sport and Exercise Psychology is an examination of psychological concepts and coaching attitudes and techniques for improving and fostering athletic performance and enjoyment. The course includes psychological motivation, choice and individual participation in appropriate athletic and fitness activities.
Prerequisite: None
Credit: 3 semester hours
Lecture 3 *Lab: 0*

FWS 260 –
Introduction to Exercise Science
IAI: None *1.1*
Introduction to Exercise Science is designed to introduce students to the various aspects of the discipline including areas of study, technology, certifications, professional organizations as well as the current and future trends in exercise science.
Prerequisite: None
Credit: 3 semester hours
Lecture 3 *Lab: 0*

FWS 261 –
Nutrition for Fitness and Sport
IAI: None *1.1*
Nutrition for Fitness and Sport explores the relationship between nutrition and physical fitness. Topics covered include: adequate diets for athletes, pre-event meals, nutritional demands of aerobic and anaerobic activities, and caloric expenditure for various physical activities.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 263 –
Nutrition, Exercise and Weight Control
IAI: None *1.1*
Nutrition, Exercise and Weight Control is specifically designed for those students who want to better understand the relationship of dieting and exercise to obesity. Based on a multi-disciplinary approach, this class will explore the physiological, sociological and psychological theories of obesity. The role of exercise and fitness in weight control will be demonstrated through the actual planning and implementation of a specifically-designed exercise program.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

COURSE DESCRIPTIONS

FWS 265 – Personal Fitness and Wellness
IAI: None *1.1*
Personal Fitness and Wellness incorporates the principles and theories of wellness into an individualized fitness program. By combining lecture with activity, all aspects of the students' lifestyles will be examined and assessed. Students will be required to attend one group lab and one independent lab session.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

FWS 266 – Personal Training I – Concepts & Applications
IAI: None *1.2*
This Personal Training I - Concepts & Applications course is the first course in a two sequence designed to prepare students for the National Strength and Conditioning Association Certified Personal Training (NSCA-CPT) exam. This course acquaints the student with the concepts and theories of exercise and its relation to health and physical fitness for personal trainers.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 267 – Personal Training II – Concepts & Applications
IAI: None *1.2*
This Personal Training II - Concepts & Applications course is the second course in a two sequence designed to prepare students for the National Strength and Conditioning Association Certified Personal Training (NSCA-CPT) exam. This course acquaints the student with the concepts and theories of exercise and its relation to health and physical fitness for personal trainers.
Prerequisite: FWS 266 or consent of instructor
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 270 – FWS Practicum I
IAI: None *1.2*
The Fitness, Wellness, and Sport Practicum I is an opportunity for students entering the fields of Exercise Science, Physical Education (Pedagogy), and Sport Management to work directly in the local agencies and schools under the supervision of the college. This course is one of three distinctly different experiences that students will experience before graduation. Students are expected to spend 50-150 hours working and observing Fitness, Wellness and Sport professionals working in the private or public sector, community and school settings.
Prerequisite: FWS 220 or 250 or FWS 260 and consent of department chair.
Credit: 1 - 3 semester hours
Lecture: 1 *Lab: 10*

FWS 271 – FWS Practicum II
IAI: None *1.2*
The Fitness, Wellness, and Sport Practicum II is an opportunity for students entering the fields of Exercise Science, Physical Education (Pedagogy), and Sport Management to work directly in the local agencies and schools under the supervision of the college. This course is the second of three distinctly different experiences that students will experience before graduation. Students are expected to spend 50-150 hours working and observing Fitness, Wellness and Sport professionals working in the private or public sector, community and school settings.
Prerequisite: FWS 220 or 250 or FWS 260 ,and FWS 270, and consent of department chair.
Credit: 1-3 semester hours
Lecture: 1 *Lab: 10*

FWS 272 – FWS Practicum III
IAI: None *1.2*
The Fitness, Wellness, and Sport Practicum III is an opportunity for students entering the fields of Exercise Science, Physical Education (Pedagogy), and Sport Management to work directly in the local agencies and schools under the supervision of the college. This course is third of three distinctly different experiences that students will experience before graduation. Students are expected to spend 50-150 hours working and observing Fitness, Wellness and Sport professionals working in the private or public sector, community and school settings.
Prerequisite: FWS 220 or 250 or FWS 260 and FWS 270 and 271, and consent of department chair.
Credit: 1-3 semester hours
Lecture: 1 *Lab: 10*

FWS 275 – Personal Training Internship
IAI: None *1.2*
Personal Training Internship provides the student with an opportunity to apply and expand upon newly acquired skills in the personal training work environment. This course is carried out cooperatively between the student and the host facility. Periodic review sessions will be held to assess the student's progress. Participation requires an interview, background check and selection process.
Prerequisite: 12 hours of FWS course work which must include FWS 121 or 126, 127, and both FWS 266 and 267
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

FWS 276 – Athletic Coaching Internship
IAI: None *1.2*
The Athletic Coaching Internship provides the student with an opportunity to apply and expand upon newly acquired skills in the coaching work environment. This course is carried out cooperatively between the student and the host facility. Periodic review sessions will be held to assess the student's progress. Participation requires an interview, background check and selection process.
Prerequisite: 12 hours of FWS course work which must include FWS 121, or 126, 127, and both FWS 253 and 254.
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

Fluid Power FLD

FLD 100 – Introduction to Fluid Power
IAI: None *1.2*
The Introduction to Fluid Power course is designed to provide students with a basic understanding of the concepts and applications of fluid power technology and the necessary skills for further study in the field. The course is an overview of fluid power technology applications; the general concept of fluid power systems; an introduction to energy input, energy output, energy control, and systems auxiliary components; as well as the design and function of components.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

Foreign Language

- See Modern Languages

French FRE

- See Modern Languages

Geography GEO

GEO 130 – World Regional Geography
IAI: S4 900N *1.1*
World Regional Geography provides an analysis of the physical and human resources of the major world areas. Special attention is given to the economic status of individual nations and the problems and potentialities of their future development.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

Geology GEL

GEL 101 – Introduction to Geology
IAI: P1 907L *1.1*

Introduction to Geology is designed as a first or second semester course for both liberal arts and science majors. This course will serve as an introductory course for a student interested in majoring in geology. The focus of this course is on the physical composition of the Earth and the dynamic processes that affect the Earth. Topics covered include plate tectonics, mountain building, volcanoes, earthquakes, glaciers, rivers, minerals, and rocks. This course fulfills laboratory science requirements for students both in and outside the geoscience curriculum.
Prerequisite: Sufficiently high placement test score, or completion of MTH 092, or MTH 096A, or MTH 096S, with a grade of "C" or higher, or equivalent.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

GEL 103 – Fossils and Earth History
IAI: P1 905L *1.1*

Fossils and Earth History is an introduction to the geological history of our planet and the evolution of life through the study of rocks and fossils. The course explores the immensity of geologic time and surveys the physical and biological changes of the Earth System through time, such as the origins of Earth, origin of life, the age of reptiles, and the formation and breakup of supercontinents. This course fulfills laboratory science requirements for students both inside and outside the curriculum.
Prerequisite: Sufficiently high placement test score, or completion of MTH 092, or MTH 096A, or MTH 096S with a grade of "C" or better, or equivalent.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

GEL 107 – Geology of the Solar System
IAI: P1 905 *1.1*

Geology of the Solar System is an introductory survey of the solar system with an emphasis on data acquired by space probes. Topics covered will include the origin and evolution of planetary interiors, surfaces, and atmospheres, as well as the origin and composition of the asteroids and comets. The possibilities for and consequences of exploiting the various components of our solar system for natural resources will be discussed.
Prerequisite: Sufficiently high placement test score, or completion of MTH 092, or MTH 096A, or MTH 096S with a grade of "C" or better, or equivalent.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

GEL 206 – Environmental Geology
IAI: P1 908 *1.1*

Environmental Geology explores both the constraints imposed by geology on human activities and human impacts on natural processes. Topics include fundamental geologic processes and associated hazards (earthquakes, volcanic eruptions, flooding, landslides), evaluation of geologic resources, and the legal and geologic limitation of resource utilization. The course will explore topics such as waste disposal and land use planning.
Prerequisite: Sufficiently high placement test score, or completion of MTH 092, or MTH 096A, or MTH 096S with a grade of "C" or better, or equivalent.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

German GRM

- See Modern Languages

Graphic Arts Technology GAT

GAT 101 – Introduction to Graphic Arts Technology
IAI: None *1.2*

Introduction to Graphic Arts Technology is a series of lectures, discussions, presentations, and laboratory experiences, designed to orient students to the breadth of the graphic arts industry. Topics discussed include the historical aspects of the industry as well as the current technology utilized in the production of printed matter.
Prerequisite: None
Credit: 4 semester hours
Lecture: 2 *Lab: 4*

GAT 105 – Basic Photography
IAI: None *1.2*

Basic Photography is a systematic approach to mastering the fundamental techniques and concepts of photography. Emphasis is placed on operation of photographic equipment using black and white materials and processing procedures. Photographic principles covered include light and its characteristics, depth-of-field, and composition. Use of these principles leads the student from an original idea to the creation of black and white photographs.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

GAT 110 – Introduction to Photoshop
IAI: None *1.2*

Introduction to Photoshop will familiarize the student with the composition and editing capabilities of Adobe Photoshop. This course is laboratory-based and each student will be required to complete a variety of activities utilizing the software.
Prerequisite: None
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

GAT 115 – Introduction to Illustrator
IAI: None *1.2*

Introduction to Illustrator orients the student to vector-based graphic design software to create original artwork as well as modify and recreate existing files for production output.
Prerequisite: None
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

GAT 150 – Typography
IAI: None *1.2*

Typography explores the structure, personality and history of type. Fundamental typographic principles, font recognition and analysis of both historical and postmodern design theory will be covered. Emphasis will be on content, form and technique for the effective use of typography in ads, posters, newsletters and other visual communications.
Prerequisite: GAT 101 or consent of the instructor
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

GAT 168 – Graphic Arts Technology Internship
IAI: None *1.2*

Graphic Arts Technology Internship requires a supervised experience in a graphic arts production facility using a cooperative training plan agreed to by the instructor, participating firm, and student. The student must submit an application to the instructor prior to mid-term of the previous semester and requires consent of the instructor or division director. Variable and repeatable credit may be earned up to six hours.
Prerequisite: Current enrollment in the Graphic Arts Technology curriculum, completion of at least 12 credits in GAT courses, and sophomore class standing.
Credit: 1-6 semester hours
Lecture: 0 *Lab: 5-30*

GAT 178 – Fundamentals of Desktop Publishing
IAI: None *1.2*

Fundamentals of Desktop Publishing is a continuation of the computer skills learned in GAT 101. This course will explore the basics of graphic design, typography, layout and technical issues for desktop publishing. This course reinforces the use of current computer software including Adobe Illustrator, Adobe Photoshop, and Adobe InDesign.
Prerequisite: GAT 101 or consent of the instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

COURSE DESCRIPTIONS

GAT 180 – Introduction to Press Operation
IAI: None *1.2*
Introduction to Press Operation provides the student with an introduction to small offset press operation. Projects will be run on an offset duplicator with instruction in setup, single-color printing, cleanup, and safety. Discussions will include the topics of infeed systems, registration, dampening, and inking systems.
Prerequisite: GAT 101 or consent of the instructor.
Credit: 4 semester hours
Lecture: 2 *Lab: 4*

GAT 190 – Image Generation and Output
IAI: None *1.2*
Image Generation and Output explores the creation and output of digital files for printing and publishing. Instruction and laboratory experience includes the application of current computer software, digital technology, and multiple input and output devices.
Prerequisite: GAT 101
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

GAT 211 – Advanced Photography
IAI: None *1.2*
Advanced Photography studies control of perspective through large format camera movements. The concept of the Zone System, along with a historical perspective of photography, is covered. Other topics include high-contrast processes, hand coloring and optics.
Prerequisite: GAT 105 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

GAT 215 – Advanced Illustrator
IAI: None *1.2*
Advanced Illustrator builds upon skills learned in GAT 115 such as pen tool techniques, object binding, pathfinders and filters and effects. Additional topics include brushes, patterns, appearance palettes, 3-D effects and live tracing. Projects include technical drawings, artistic renderings and 3-D object creating.
Prerequisite: GAT 115 or consent of instructor
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

GAT 220 – Advanced Photoshop for the Graphic Arts Industry
IAI: None *1.2*
Advanced Photoshop for the Graphic Arts Industry involves a more intensive study of digital image manipulation. Topics include advanced layering techniques, use of channels, duotones, and output specific to the printing and publishing industry.
Prerequisite: GAT 110 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

GAT 241 – Intermediate Desktop Publishing
IAI: None *1.2*
Intermediate Desktop Publishing continues from GAT 178 into more advanced concepts and applications of computer-based composition systems for the graphic arts industry. Topics and projects include: creation of multi-page documents, advertisements, product packaging, large format designs, and file and font management.
Prerequisite: GAT 178
Credit: 4 semester hours
Lecture: 2 *Lab: 4*

GAT 242 – Advanced Desktop Publishing
IAI: None *1.2*
Advanced Desktop Publishing continues from GAT 241 to cover more advanced design technologies such as interactive document publishing, and augmented reality. Topics will also include a basic introduction to creating web pages using HTML and CSS and will have students creating their own custom web portfolio.
Prerequisite: GAT 241
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

GAT 250 – Special Topics in Graphics Arts Technology
IAI: None *1.2*
Special Topics in Graphic Arts Technology explores specific applications, skills, or interest in graphic technology. A special topic requires: adequate and available materials on a specific graphic arts related issue, a comprehensive course outline, instructor expertise, student and community interest, and ability to increase skill and/or knowledge in graphic arts technology. Variable and repeatable credit up to six credit hours may be earned.
This course may be repeated three times.
Prerequisite: Determined by the special topic and consent of instructor.
Credit: 1-6 semester hours
Lecture: 1-6 *Lab: 0-4*

GAT 255 – Color System Management
IAI: None *1.2*
Color System Management applies color theory to the practical management of color in a production environment. Topics include: color theory, color measurement, creating scanner and monitor color profiles, color modes, color separations, and the proper setup of files to use specialty inks and printing techniques.
Prerequisite: GAT 220
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

GAT 260 – Estimating for Graphic Arts Production
IAI: None *1.2*
Estimating for Graphic Arts Production explores the manual and electronic method for pricing production printing jobs. Major emphasis is on estimating photo lithographic work but other types of production will be discussed. Field trips, class discussion and laboratory case studies will allow the student a variety of estimating experiences.
Prerequisite: GAT 190 and GAT 290, MTH 115 or MTH 120, or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

GAT 280 – Press Operation II
IAI: None *1.2*
Press Operation II continues from GAT 180 to cover more intricate applications and build skills utilizing a small offset press. Topics and related student projects include: press measurement techniques, ink density, conductivity, critical registration, multi-color runs, and press maintenance.
Prerequisite: GAT 180
Credit: 4 semester hours
Lecture: 2 *Lab: 4*

GAT 290 – Finishing, Bindery and Variable Data Applications
IAI: None *1.2*
Finishing, Bindery and Variable Data Applications is an introduction to finishing and binding techniques, the operation of paper drills, saddle stitchers, programmable cutters, and paper folders for a variety of laboratory projects. Also covered is variable data control using a variety of software programs. Lectures and discussions as well as tours will be used to introduce complex finishing techniques not available in our classroom.
Prerequisite: GAT 101 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

GAT 298 – Independent Study in Graphic Arts
IAI: None *1.2*
Independent Study encourages individual projects or research of special interest related to Graphic Arts Technology. The student must submit an application to the division director prior to mid-term of the prior semester for a specific topic in cooperation with a qualified instructor. Approval of the topic and study plan by the instructor and division director is required. Variable and repeatable credit up to six credit hours may be earned. This course may be repeated three times.
Prerequisite: Current enrollment in the Graphic Arts Technology curriculum, completion of a minimum 21 credits in GAT courses, and sophomore class standing.
Credit: 1-6 semester hours
Lecture: 0 *Lab: 5-30*

Health HLT

HLT 101 – Introduction to Healthcare Careers

IAI: None *1.2*

Introduction to Healthcare Careers provides an introduction to healthcare and healthcare careers. Topics include health, illness, lifestyles and common illnesses; human response to illness and the needs of clients who are experiencing illness, healthcare delivery systems and important issues for healthcare systems and care providers; and employment and careers in healthcare. Cultural diversity issues are addressed as they relate to course topics.

Prerequisite: None
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

HLT 110 – Medical Terminology

IAI: None *1.2*

Medical Terminology provides study of a wide range of medical terminology. The course is of value to those preparing for careers as health care providers and for diagnostic careers. It is also of value to those preparing for medical office careers, including Medical Office Assistant, Medical Transcriptionist, Medical Coding, and others. Course content includes building medical terms from word parts and specific medical terms relating to body systems, diseases, diagnosis, surgical and medical care, abbreviations, medications, and other medical terms.

Prerequisite: None
Credit: 2 semester hours
Lecture: 2 *Lab:0*

History HST

HST 140 – History of Western Civilization I

IAI: S2 902 *1.1*

History of Western Civilization I includes prehistoric people, the ancient cultures, Greek and Roman civilization, the Middle Ages, the Renaissance and the Reformation. The evolution of people from the earliest times to the 17th century is covered.

Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 141 – History of Western Civilization II

IAI: S2 903 *1.1*

History of Western Civilization II covers the evolution of Western people from the 17th century to the present. The development of Western institutions of government, the modern state system, international relations, and the cultural and intellectual development of the West are treated.

Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 142 – History of the United States to 1865

IAI: S2 900 *1.1*

History of the United States to 1865 begins with the background to and development of the American colonies, continues with the American Revolution, Constitution, Federal Period, Age of Jefferson, National Period, and Age of Jackson and concludes with the background to the Civil War and Reconstruction.

Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 143 – History of the United States Since 1865

IAI: S2 901 *1.1*

History of the United States Since 1865 begins with the problems of Reconstruction, proceeds to the American Industrial Revolution and its effects—urbanism, culture, politics of the Guilded Ages, Imperialism, Progressivism—continues with the 20th century and the United States' role in World War I, 1920s, Depression, and its role in World War II, and concludes with the United States since World War II.

Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 144 – Current History 1945 to the Present

IAI: None *1.1*

Current History 1945 to the Present is a historical analysis of the contemporary world in its national and international setting from 1945 to the present that is divided into 1945-1960, 1960-1972, 1972-1980, 1980-1991, and current events.

Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 151 – African History Survey to 1600

IAI: S2 906N *1.1*

African History Survey to 1600 includes the geography, the culture, languages, and the political and social institutions of the African people. Emphasis will be placed upon the birth of man, prehistory, ancient and medieval civilizations and kingdoms, initial contact with Europe and the beginning(s) of the slave trade.

Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 152 – African History Survey Since 1600

IAI: S2 907N *1.1*

African History Survey Since 1600 covers the slave trade, roots of European expansion, colonialism and the scramble for Africa, the Berlin Conference and the partitioning, the growth of nationalism, the fight for independence, neocolonialism, and the emergence of the modern African nation.

Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 162 – History of Latin America I

IAI: S2 910N *1.1*

History of Latin American I is an introductory survey course that focuses on the political, social and economic history of the principal Latin American nations, including the origins and development of its peoples and cultures from ancient civilizations to the European conquest.

Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 163 – History of Latin America II

IAI: S2 911N *1.1*

History of Latin America II is a continuation of History of Latin America I. This course focuses on the political, social, economic and cultural history of the principal Latin American nations from the late Colonial period to the present. Major influences, forces, and personalities will be studied.

Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 172 – History of the Middle East to 1452

IAI: S2 918N *1.1*

History of the Middle East to 1452 is an introductory survey of the political, social and economic history of the principal Middle Eastern countries, including the origins and development of the peoples and cultures. The course focuses on major movements, influences and personalities that helped shape the Middle East. Among the more important themes will be long-term cultural and social continuities with the Islamic and ancient Near East, and concepts of religious and political authority.

Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 173 – History of the Middle East Since 1453

IAI: S2 919N *1.1*

History of the Middle East Since 1453 is an introductory survey of the political, social and economic history of the principal Middle Eastern countries, including the origins and development of the peoples and cultures. The course focuses on major movements, influences and personalities that helped shape the Middle East. Among the more important themes will be long-term cultural and social continuities with the Islamic tradition, and concepts of religious and political authority.

Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

HST 182 –
History of Eastern Civilization to 1500
IAI: S2 908N *1.1*
History of Eastern Civilization to 1500 includes the political and cultural history of India, China, Japan and Southeast Asia. The origins, development and importance of the major religions of Asia will be stressed.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 183 –
History of Eastern Civilization Since 1500
IAI: S2 909N *1.1*
History of Eastern Civilization Since 1500 is a survey of the developments in India, China, Japan, and Southeast Asia since the arrival of the Europeans. The impact of technology from the West upon political ideas, cultural-religious values, and economics will be stressed.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 192 –
History of the World Until 1750
IAI: S2 912N *1.1*
This course provides a survey of world history from the earliest beginnings of humankind until 1750. It will examine the growth and development of the social, political, economic, and cultural institutions of the societies of the world.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 193 –
History of the World Since 1750
IAI: S2 913N *1.1*
This course provides a survey of world history from 1750 until the present. It will examine the social, political, economic, and cultural changes in the societies of the world during that time period.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 210 –
History of Women of the United States
IAI: None *1.1*
History of Women of the United States provides an overview of 400 years of American women's history in all its diversity. Themes will include the private and family experiences of women, the nature of women's work and education, and the political and civic role and activism of women. The grand sweep of American history—colonial settlement and conquest, revolution and civil war, the institution of slavery, industrialization, world wars, and the rise of consumerism, the workings of the welfare state—will provide the backdrop for the story.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 244 –
English History I
IAI: None *1.1*
English History I is a survey of English history from ancient origins to 1688.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HST 245 –
English History II
IAI: None *1.1*
English History II is a survey of English history from 1688 to the present.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

Humanities HUM

See also Literature, Modern Languages, and Philosophy for other courses that satisfy the Humanities requirement for the General Education Core Curriculum (GECC).

HUM 111 –
Introduction to Humanities I
IAI: HF 902 *1.1*
Introduction to Humanities I (from the Ancient World to 1600) is a basic introduction to the humanities including art, music, literature, philosophy, and history from the ancient periods of Egypt and Mesopotamia to the Renaissance. Differing subject matter and issues will be discussed and analyzed with attention directed to the role of humanities in current society.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HUM 112 –
Introduction to Humanities II
IAI: HF 903 *1.1*
Introduction to Humanities II (from 1600 to present) is a basic introduction to the humanities including art, music, literature, philosophy, and history from the Renaissance to modern times. Differing subject matter and issues will be discussed and analyzed with attention directed to the role of humanities in current society.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HUM 114 –
Introduction to Humanities III: Contemporary Western World
IAI: HF 901 *1.1*
This course is an interdisciplinary, thematic survey of the history, philosophy, art, music, and literature of the Western World from the beginnings of the 20th century to the present. Using an historical framework extending back to the concept of "modernism" as defined by antiquity through contemporary times, students will examine the connections between earlier concepts of modernism and those of their own time, ultimately recognizing contemporary themes, genres, and relationships within the humanities. Emphasis will be on the relevance of these trends on current society and implications for the future.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HUM 115 –
Cultural Pluralism in America
IAI: None *1.1*
This course is an exploration of various racial and ethnic groups in the United States. The course will examine the history, communication, and dynamics of minority traditions in America including blacks, Hispanics, Asians, and others. Majority-minority relationships will be analyzed.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HUM 117 –
Ethnic Traditions in American Theatre
IAI: F1 909D *1.1*
This course involves reading and writing about American plays that dramatize racial and ethnic minorities struggling to construct identities in a society influenced by dominant myths concerning gender, family, success, race, equality, and freedom.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HUM 120 –
Latin American Cultural Expression
IAI: HF 904N *1.1*
Latin American Cultural Expression is an interdisciplinary survey of the significant intellectual and artistic achievements of selected Latin American cultures through works which may include literature, philosophy, visual art, architecture, music, and film. Selected works will show the transformation from a colonial culture following the European model to a gradual development of a national identity and culture. The selected Latin American culture will be announced in the schedule of classes. The course will be taught in English.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HUM 121 – U.S. Latino/Latina Cultural Expression

IAI: HF 906D *1.1*

U.S. Latino/Latina Cultural Expression is an interdisciplinary study of the cultural identities of U.S. Latinos/Latinas. Using an historical framework, students will be introduced to the literary, artistic, and sociopolitical contributions from this minority to U.S. culture. The class will explore issues of adaptation, marginalization, changing gender roles, and the search for self and place in a bilingual-bicultural society.
This class will be taught in English.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HUM 122 – Spanish Cultural Expression

IAI: HF 902 *1.1*

Spanish Cultural Expression is a chronologically-organized interdisciplinary survey of the significant intellectual, literary, philosophical, visual art, music and other performing art expressions from the major epochs of modern Spain. This class may include a travel experience where the culture will be studied on-site.
This class will be taught in English.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HUM 125 – Introduction to Non-Western Humanities

IAI: HF 904N *1.1*

Introduction to Non-Western Humanities is a guided, interdisciplinary exploration of the humanities, focusing on Non-Western perspectives and traditions. Works and issues in art, music, architecture, literature, philosophy, religion and performance will be studied, both within a particular cultural formation (such as Middle Eastern, Asian, African, South American) and also through a comparative examination of their values, motifs and aesthetics with those of Western cultural expression.
Prerequisites: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HUM 210 – Cultural Expression of Gender in the Visual and Performing Arts

IAI: F 2 907D *1.1*

Cultural Expression of Gender in the Visual and Performing Arts is the interdisciplinary study of art, architecture, music, theatre performance, and dance that focuses on the experience and construction of gender identity in Western culture.
Prerequisite: None
Recommended: Prior study of or experience in art, architecture, music, theatre performance and/or dance.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HUM 211 – War and Western Humanities Through the Middle Ages

IAI: HF 900 *1.1*

War and Western Humanities Through the Middle Ages is a survey course which explores the theme of war as represented in the history, art, literature, music and philosophy of the Western World from the earliest civilizations of Mesopotamia and Egypt through the Middle Ages. Special emphasis may be placed on specific conflicts (i.e., The Macedonian Wars, The Peloponnesian War, The Punic Wars, The 100 Years War, etc.) while placing these in the larger context of the theme of humanism and war. The content of the course will lead to considerations of its relevance in the conflicts of the present day and their representations in current art, literature, music, and philosophy.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HUM 212 – War and Western Humanities from the Renaissance to the Present

IAI: HF 901 *1.1*

War and Western Humanities from the Renaissance to the Present is a survey course which explores the theme of war as represented in the history, art, literature, music and philosophy of the Western World beginning with the Renaissance through modern times. Special emphasis may be placed on specific conflicts (i.e., The Thirty Years War, The French Revolution, The American Revolution, World Wars I and II, Vietnam, etc.) while placing these in the larger context of the theme of humanism and war. The content of the course will lead to considerations of its relevance in the conflicts of the present day and their representations in current art, literature, music and philosophy.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HUM 250 – Leadership Development Studies

IAI: None *1.1*

This course is a comprehensive analysis of the traits and values inherent in effective leaders. Speeches, biographies, essays, literary classics and films are examined in a collegial, self-directed environment to facilitate class discussions. Phi Theta Kappa, the national community college honor society, provides text materials and certifies the course instructors.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

Independent Study IDS

IDS 299 – Independent Study

IAI: None *1.1*

Independent Study is an opportunity for students to do extended work in a given liberal arts discipline, with minimal faculty contact. IDS 299 may not be used to provide a substitution for an approved catalog course, nor will it fulfill specific general education requirements toward the A.A./A.S. degrees. Student and sponsoring faculty must file a detailed plan of work and receive both divisional and dean-level approval.
Prerequisite: A 2.5 minimum GPA for 15 college-level credit hours. May be repeated for a maximum of four hours for credit toward A.A./A.S. degrees.
Credit: 1-4 semester hours.
Lecture: 1-4 *Lab: 0*

Journalism JRN

JRN 105 – Newspaper Production I

IAI: None *1.1*

Newspaper Production I is a course in which students participate in the production of the college newspaper, *The Valley Forge*, and meet with the instructor/advisor and the editor(s) to learn and apply the principles and practices of newspaper production in a state-of-the-art, computerized newsroom environment.
Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

JRN 110 – Newspaper Production II

IAI: None *1.1*

Newspaper Production II is a continuation of Journalism 105. Emphasis will be placed upon proofreading and copy editing, headline writing, and the elements of good journalistic style.
Prerequisite: JRN 105
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

JRN 122 – Newswriting

IAI: MC 919 *1.1*

Newswriting serves as an introduction to the principles and practices of gathering, evaluating, writing, and editing basic news stories. Students are also instructed in principles of ethical journalism while learning newsroom management skills and techniques that are critical in the writing process.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

JRN 123 –
Feature Writing and Editing
IAI: None *1.1*
Feature Writing and Editing is an introductory course in preparing feature articles for newspapers and magazines. Students write articles that are generally from two-ten pages long, and they are encouraged to submit their work for publication.
Prerequisite: JRN 122 is recommended but not required.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

JRN 135 –
News Editing
IAI: None *1.1*
News Editing is an introduction to print media editing principles and practices, including headline writing and copy editing skills, revision of material for style, newspaper design theory, principles of photo editing, and typography.
Prerequisite: JRN 122 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

JRN 139 –
Literary Magazine Production
IAI: None *1.1*
Literary Magazine Production is a comprehensive, hands-on introduction to the management of a college literary magazine including solicitation and selection of submissions, design, production and distribution. This course may be taken three times for a maximum of 6 credits.
Prerequisite: None
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

JRN 146 –
Advanced News Writing
IAI: None *1.1*
Advanced News Writing is a continuation of JRN 122, focusing on investigative reporting, feature writing, series writing, and advanced reporting and writing skills.
Prerequisite: JRN 122 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

JRN 205 –
Newspaper Production III
IAI: None *1.1*
Newspaper Production III is a continuation of Journalism 110. Emphasis will be placed upon graphic design theories, principles of page layout and production,
and photojournalism.
Prerequisite: JRN 110
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

JRN 210 –
Newspaper Production IV
IAI: None *1.1*
Newspaper Production IV is a continuation of Journalism 205. Emphasis will be placed upon editorial practice and opinion writing and advanced design theories.
Prerequisite: JRN 205
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

Life Science

– See Biology

Literature LIT

LIT 139 –
Mythology
IAI: H9 901 *1.1*
Mythology is an introductory course in reading, analyzing, and discussing the more important myths, studying what distinguishes mythology from other story forms, and noting the influences of mythology on traditional literature. Graded written work (a minimum of 9 -12 typed pages) may include critical responses, essay examinations, formal research papers, critiques, and/or group presentations, in addition to any journals, class notes, or other informal responses.
Prerequisite: Sufficiently high placement score resulting in placement in ENG 101, or grade of "C" or better in ENG 099.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 140 –
The Bible as Literature
IAI: H5 901 *1.1*
The Bible as Literature is an introductory course in reading, analyzing, and discussing the literature of the Bible: the quality and style of its literary forms and its influence on English and American literature. Graded written work (a minimum of 9 -12 typed pages) may include critical responses, essay examinations, formal research papers, critiques, and/or group presentations, in addition to any journals, class notes, or other informal responses.
Prerequisite: Sufficiently high placement score resulting in placement in ENG 101, or grade of "C" or better in ENG 099.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 141 –
Film as Literature
IAI: F2 908 *1.1*
Film as Literature is an introductory course analyzing, examining, and discussing the relationships and interactions between film and literature through comparative study, including literary aspects of film, aural and visual adaptations, and techniques and criticism common to both areas. Graded written work (a minimum of 9 -12 typed pages) may include critical responses, essay examinations, formal research papers, critiques, and/or group presentations, in addition to any journals, class notes, or other informal responses.
Prerequisite: Sufficiently high placement score resulting in placement in ENG 101, or grade of "C" or better in ENG 099.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 142 –
Exploring Literature: Poetry
IAI: H3 903 *1.1*
Exploring Literature: Poetry involves instruction and practice in close reading of poetry, focusing on reading, discussing, and writing effectively about a range of poems; it is not a historical survey. Graded written work (a minimum of 9 -12 typed pages) may include critical responses, essay examinations, formal research papers, critiques, and/or group presentations, in addition to any journals, class notes, or other informal responses.
Prerequisite: Sufficiently high placement score resulting in placement in ENG 101, or grade of "C" or better in ENG 099.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 143 –
Exploring Literature: Drama
IAI: H3 902 *1.1*
Exploring Literature: Drama involves reading and discussion of representative short plays, ranging from classical to modern drama, with some attention to dramatic and theater criticism. Graded written work (a minimum of 9 -12 typed pages) may include critical responses, essay examinations, formal research papers, critiques, and/or group presentations, in addition to any journals, class notes, or other informal responses.
Prerequisite: Sufficiently high placement score resulting in placement in ENG 101, or grade of "C" or better in ENG 099.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 144 –
Exploring Literature: Fiction
IAI: H3 901 *1.1*
Exploring Literature: Fiction involves reading and discussion of representative short stories and novels from a range of literatures, with some attention to critical work on fiction. Graded written work (a minimum of 9 -12 typed pages) may include critical responses, essay examinations, formal research papers, critiques, and/or group presentations, in addition to any journals, class notes, or other informal responses.
Prerequisite: Sufficiently high placement score resulting in placement in ENG 101, or grade of "C" or better in ENG 099.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 152 –
Multicultural American Literature
IAI: H3 910D (approval pending) *1.1*
Multicultural American Literature explores questions of cultural identity and difference in contemporary (post-1945) American literature, including works by African American, Asian American, Latina/o American and Native American authors. Graded written work (a minimum of 9 -12 pages) may include critical responses, essay examinations, formal research papers, critiques, and/or group presentations, in addition to any journals, class notes, or other informal responses.
Prerequisite: Sufficiently high placement score resulting in placement in ENG 101, or grade of "C" or better in ENG 099.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 201 –
American Literature – Colonial Days to the Civil War
IAI: H3 914 *1.1*
American Literature from the Colonial Days to the Civil War involves a survey of representative texts illustrating the development of American literature from its beginnings to the Civil War, with an emphasis on major literary movements understood in relation to their intellectual, social, and political contexts. Written work includes substantial formal essay assignments (a minimum of 9 -12 typed pages) and a midterm and final exam, in addition to any journals, class notes, or other informal responses.
Prerequisite: A grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 202 –
American Literature – Civil War to the Present
IAI: H3 915 *1.1*
American Literature – Civil War to the Present involves a survey of representative texts illustrating the development of American literature from the Civil War to the present, with an emphasis on major literary movements understood in relation to their intellectual, social, and political contexts. Written work includes substantial formal essay assignments (a minimum of 9 -12 typed pages) and a midterm and final exam, in addition to any journals, class notes, or other informal responses.
Prerequisite: Grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 205 –
British Literature – Beginning to 1800
IAI: H3 912 *1.1*
British Literature – Beginning to 1800 involves a survey of representative texts illustrating the development of British literature from its beginnings to 1800, with an emphasis on major literary movements understood in relation to their intellectual, social, and political contexts. Written work includes substantial formal essay assignments (a minimum of 9-12 typed pages) and a midterm and final exam, in addition to any journals, class notes, or other informal responses.
Prerequisite: Grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 206 –
British Literature – 1800 to the Present
IAI: H3 913 *1.1*
British Literature from 1800 to the Present involves a survey of representative texts illustrating the development of British literature from 1800 to the present, with an emphasis on major literary movements understood in relation to their intellectual, social, and political contexts. Written work includes substantial formal essay assignments (a minimum of 9 -12 typed pages) and a midterm and final exam, in addition to any journals, class notes, or other informal responses.
Prerequisite: Grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 210 –
Women's Literature: The Early Years to 1800
IAI: H3 911D *1.1*
Women's Literature: The Early Years to 1800 involves a survey of representative texts illustrating the development of women's literature from its beginnings to 1800, with an emphasis on major literary movements understood in relation to their intellectual, social, and political contexts. Works will be primarily by women, from various communities and traditions, and will consider ways in which women have presented themselves and have been presented by others. Written work includes substantial formal essay assignments (a minimum of 9 -12 typed pages) and a midterm and final exam, in addition to any journals, class notes, or other informal responses.
Prerequisite: Grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 211 –
Women's Literature: 1800 to Present
IAI: H3 911D *1.1*
Women's Literature: 1800 to Present involves a survey of representative texts illustrating the development of women's literature from 1800 to the present, with an emphasis on major literary movements understood in relation to their intellectual, social, and political contexts. Works will be primarily by women, from various communities and traditions, and will consider ways in which women have presented themselves and have been presented by others. Written work includes substantial formal essay assignments (a minimum of 9 -12 typed pages) and a midterm and final exam, in addition to any journals, class notes, or other informal responses.
Prerequisite: Grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 241 –
Shakespeare
IAI: H3 905 *1.1*
Shakespeare is an introductory course in the works and world of Shakespeare that focuses on reading, discussion, and criticism of the major histories, comedies, tragedies, problem plays and non-dramatic poetry. Written work includes substantial formal essay assignments (a minimum of 9 -12 typed pages) and a midterm and final exam, in addition to any journals, class notes, or other informal responses.
Prerequisite: Grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 243 –
Western Literature to 1800
IAI: H3 906 *1.1*
Western Literature to 1800 is a study of major literary works of Western civilization from Greek epics and drama through selected prose, verse, and drama of the 18th century. Written work includes substantial formal essay assignments (a minimum of 9 -12 typed pages) and a midterm and final exam, in addition to any journals, class notes, or other informal responses.
Prerequisite: Grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 244 –
Western Literature Since 1800
IAI: H3 907 *1.1*
Western Literature Since 1800 is a continuation of the study of major literary works in Western civilization from the Enlightenment through the Romantic period and Realism-Naturalism to the present. Written work includes substantial formal essay assignments (a minimum of 9 -12 typed pages) and a midterm and final exam, in addition to any journals, class notes, or other informal responses.
Prerequisite: Grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

LIT 251 –
Non-Western Literature Before 1800
IAI: H3 908N *1.1*
Non-Western Literature Before 1800 involves an introduction to literature in English by writers from Non-Western cultures – Asian, South Asian, African, Caribbean, Middle-Eastern – with an emphasis on the intellectual, social, and political contexts of their works before 1800. Written work includes substantial formal essay assignments (a minimum of 9 -12 typed pages) and a midterm and final exam, in addition to any journals, class notes, or other informal responses.
Prerequisite: Grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 252 –
Non-Western Literature Since 1800
IAI: H3 908N *1.1*
Non-Western Literature Since 1800 involves an introduction to literature in English by writers from non-Western cultures – Asian, South Asian, African, Caribbean, Middle-Eastern – with an emphasis on the intellectual, social, and political contexts of their works after 1800. Written work includes substantial formal essay assignments (a minimum of 9 -12 typed pages) and a midterm and final exam, in addition to any journals, class notes, or other informal responses.
Prerequisite: Grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

LIT 260 –
Contemporary African Literature
IAI: H3 908N *1.1*
Contemporary African Literature is a survey course designed to introduce students to the post-1945 works of some major African writers. Selected contemporary works representing a cross-section of Africa will be studied. Written work includes substantial formal essay assignments (a minimum of 9 -12 typed pages) and a midterm and final exam, in addition to any journals, class notes, or other informal responses.
Prerequisite: Grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

Management MGT

MGT 170 –
Business Communications
IAI: None *1.2*
Business Communications covers the current trends affecting business communication today. Students will demonstrate both verbal and nonverbal skills through a variety of professional documents such as letters, memos, e-mail and reports. Special emphasis is placed on good news, bad news, and persuasive messages using the psychological approach to writing.
Prerequisite: ENG 101 with a grade of "C" or higher, or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MGT 270 –
Principles of Management
IAI: None *1.2*
Principles of Management introduces the basic management functions of planning, organizing, leading, and controlling. Topics include the organizational triangle, strategic planning, managing human resources, decision-making, communication, quality, innovation, conflict management, and ethics. These principles apply to management in all organizations.
Prerequisite: BUS 101 or consent of the instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MGT 271 –
Human Resource Management
IAI: None 1.2
Human Resource Management is a study of the basic principles and procedures of personnel administration. Application of management fundamentals to the personnel function – recruitment, selection, training and development, motivation, compensation, and retirement. Various personnel techniques will be stressed.
Prerequisite: BUS 101 and MGT 270 or consent of Dean or instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MGT 274 –
Leadership
IAI: None *1.2*
Students experience theoretical and practical applications of leadership research and development. Using the case study method, students comparatively analyze individual and organizational leadership activities with various leadership theories. Students synthesize findings with current real world activities developing a personal leadership vision. The course builds on business fundamentals while discussing the differences between leadership and management in the modern world. Students will gain a deeper insight into the phenomenon of leadership while developing the personal leadership vision that will provide guidance for present and future career opportunities.
Prerequisite: BUS 101 or consent of the instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MGT 281 –
Women in Management
IAI: None *1.2*
Women in Management provides both practical and theoretical materials to help women who aspire to managerial careers. Discussions center on special issues facing women in management. This course is designed for women wanting to move into management, male and female management students and business people seeking to continue or update their education.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MGT 282 –
Independent Study in Management
IAI: None *1.2*
Independent Study in Management allows the student to conduct research in specialized management areas. The course requirements will be developed based on the nature of the subject and the student's goals and objectives. Consent of the coordinator is required.
Prerequisite: Completion of 30 semester hours of credit in the business management curriculum at Rock Valley College. A maximum of 3 hours credit can be earned in this course.
Credit: 1-3 semester hours
Lecture: 1-3 *Lab: 0*

MGT 283 –
Internship in Business Management
IAI: None *1.2*
Internship in Business Management provides a supervised occupational experience in business management. A training plan will be developed by the coordinator in cooperation with the student and the participating business. Consent of the instructor is required.
Prerequisite: Completion of 30 semester hours of credit in the business management curriculum.
Credit: 1-6 semester hours
Lecture: 0 *Lab: 3*

Manufacturing Engineering Technology MET

MET 100 –
Introductory CAD and Print Reading
IAI: None *1.2*
Introductory CAD and Print Reading is designed for the student without recent high school or industrial drafting experience.
The basic concepts required to create and interpret industrial drawings is presented and practiced. This course provides fundamental print reading principles with emphasis on dimensions and tolerances, shape description, machine operations, notes, symbols, and other pertinent data.
Prerequisite: MTH 092
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 102 –
Methods of Statistical Process Control (SPC)
IAI: None *1.2*
Methods of Statistical Process Control presents basic statistical concepts, quality tools, common probability distributions, problem-solving techniques, control charts for variable and attribute data, interpretation, Gage R&R, process capability analysis, and acceptance sampling. Instruction and lab exercises integrate management strategies, data planning, cross-functional project teams, and requirements of modern quality standards that lead to successful application of SPC.
Prerequisite: MTH 100 or MTH 125 or MTH 132
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 105 – Materials and Processes
IAI: None *1.2*
Materials and Processes introduces material properties and attributes of metals, plastics, ceramics, composites, and other materials. Survey of processes includes heat treatment, surface processing, particulate processing, casting, molding, forming, joining, material removal and other processing technologies. Theory is illustrated by laboratory experiments and demonstrations along with company visits to view the latest techniques.
Prerequisite: MTH 094 or MTH 096S
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 106 – Metrology
IAI: None *1.2*
Metrology introduces the science of measurement for engineering technicians, machinists, and technical personnel through basic measurement principles, selection, operation, and application of English and Metric measuring instruments. Lecture and lab exercises cover basic dimensional metrology, measuring instruments, gaging, high-amplification comparators, surface plate, angular instruments, sine bar, pneumatic gaging, and CMM systems. Related topics introduce data analysis, variable versus attribute, MSA, calibration systems, and modern standards for quality systems and metrology.
Prerequisite: MTH 094 or MTH 096S
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 108 – Computer Drafting Using AutoCAD™
IAI: IND 911 *1.2*
Computer Drafting Using AutoCAD™ introduces computer graphic concepts, hardware, software, and operating principles of a comprehensive PC-based computer graphics system. The student will use AutoCAD™ software for all course projects. The latest ANSI/ASME standards will be incorporated throughout the course. Lecture and laboratory projects emphasize drafting principles and techniques necessary to produce multi-view, auxiliary, and section drawings with appropriate dimensioning practices.
Prerequisite: MET 100 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 110 – Manufacturing Processes I
IAI: IND 913 *1.2*
Manufacturing Processes I provides an introduction to machining processes including milling, turning, grinding, drilling, and cutoff operations. Laboratory activities include the fundamentals of machine setup and operations, tooling, precision measurement, process safety, care and maintenance. This course is offered at a regional training center in partnership with Rock Valley College.
Prerequisite: MTH 092
Corequisite: MET 100 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 111 – CNC Machine Setup/Operation/ Programming
IAI: None *1.2*
CNC Machine Setup/Operation/ Programming studies the setup and operation of computer numerical control (CNC) machine tools. The course is designed to provide knowledge on the latest CNC machines using an online training environment and lab session including turning centers and machining. Exercise and laboratory projects emphasize practical problems, demonstrations, and student operation of CNC equipment.
Prerequisite: MTH 094 or MTH 096S; MET 100, MET 106, and MET 110
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 118 – Intermediate AutoCAD™ – Production Drafting
IAI: None *1.2*
Intermediate AutoCAD™ – Production Drafting extends and builds upon current drafting practices for AutoCAD™ users. Emphasis is placed on the identification and familiarization of techniques that enhance CAD productivity and the production of industrial drawings. This course is intended for students completing a CAD certificate program and is not required for the A.A.S. degree program.
Prerequisite: MET 108
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 133 – Graphics/SolidWorks™ CAD I
IAI: IND 911 *1.2*
Graphics/SolidWorks CAD I introduces computer graphics concepts, hardware, software, and operating principles of a computer graphics system. The student will use SolidWorks™ software for all course projects. The latest ANSI/ASME standards will be incorporated throughout the course. Lecture and laboratory projects emphasize design principles and techniques necessary to produce solid models, assemblies and multi-view drawings.
Prerequisite: MTH 094 or MTH 096S; MET 100
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 146 – Hydraulics, Pneumatics and PLCs
IAI: None *1.2*
Hydraulics, Pneumatics and PLCs introduces the basic concepts of fluid power technology including the function of hydraulic and pneumatic components. Emphasis is placed upon the delineation of basic hydraulic and pneumatic circuits. Basic operations and programming of PLCs is also presented.
Prerequisite: MTH 100 or MTH 125 or MTH 132
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 162 – Applied Physics
IAI: None *1.2*
Applied Physics teaches all technology students physics and mathematics fundamentals that can be applied to industrial and technical applications. Five major areas of study are covered: mechanics, matter and heat, wave motion and sound, electricity and magnetism, and light.
Prerequisite: MTH 100 or MTH 125 or MTH 132
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

MET 217 – Applied Statics
IAI: None *1.2*
Applied Statics is an analysis of real force systems by applying the principles of equilibrium to rigid bodies and simple structures. Distributed forces, determination of centroids, moments of inertia, analysis of structures, friction and related topics are presented.
Prerequisite: MTH 100 or MTH 125 or MTH 132
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MET 218 – Strength of Materials
IAI: None *1.2*
Strength of Materials studies the relationship between external forces and the stresses and deformations they produce in a deformable body. Consideration is given to members subjected to tension and compression, torsion and bending related to: loading and deflection of beams and shafts, and buckling of columns.
Prerequisite: MET 217
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MET 220 – Mechanisms
IAI: None *1.2*
Mechanisms present the study of motion characteristics and the application of mechanism design to provide desired motions. In the study of motion, absolute and relative position, velocity, and acceleration are presented. Cam layout as well as the nomenclature and kinematics of gearing are also presented. Computer-aided design systems will be incorporated where applicable.
Prerequisite: MTH 100 or MTH 125 or MTH 132
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

MET 221 – Machine Design
IAI: None *1.2*
Machine Design explores factors that influence materials and application of particular machine elements in their environment. Attention is given to various loading conditions, stresses, and deformations, which must be considered in arriving at a satisfactory design. Elements include: gears, power screws, fasteners, bolted joints, springs and environmental considerations. Computer-aided design systems will be incorporated where applicable.
Prerequisite: MET 217
Corequisite: MET 218
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MET 226 – CNC/CAM Operations I
IAI: None *1.2*
CNC/CAM Operations I teaches the concepts of Computer Numerical Control for machine tools, tooling, software and operating principles of CNC systems. Students develop part programs using current, industrial CAM software for program generation, editing and tool path verification. Postprocessing and G-M code verification is presented for specific machine tools.
Prerequisite: MET 100
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 233 – Graphics/SolidWorks™ CAD II
IAI: None *1.2*
Graphics/SolidWorks™ CAD II requires a comprehensive background with Solidworks™ software and current drafting practices. Lecture and laboratory projects include: surface, solid modeling, parametrics, and assemblies. Rapid prototyping techniques will be introduced. Emphasis is placed on the techniques used to maximize design and drawing productivity.
Prerequisite: MET 133 or EGR 135
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 237 – Design of Experiments
IAI: None *1.2*
Design of Experiments presents the best of Taguchi and Western experimental design techniques for process quality improvement. Students learn the sequential approach, effective setup, quality tools, statistical and graphical analysis, and reporting of DOE. Lecture and lab exercises make extensive use of practical case studies to apply simple response tables, graphical techniques, and computer analysis for process optimization.
Prerequisite: MET 102, MET 106
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

MET 240 – CNC/CAM Operations II
IAI: None *1.2*
CNC/CAM Operations II is a second course that provides the student with a background in CNC programming using CAM software. Emphasis is placed on the identification and familiarization of techniques that enhance CAM productivity and the production of CNC programs. Students develop part programs using software for program generation, editing and simulation of tool paths.
Prerequisite: MET 226
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 243 – Continuous Improvement in Manufacturing
IAI: None *1.2*
This course is designed to bring lean manufacturing techniques and training, that are changing the world of manufacturing, into the classroom. Emphasis is placed on continuous improvement, waste elimination, customer focus and elements of lean production.
Prerequisite: MTH 094 or MTH 096S
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MET 247 – Manufacturing Methods, Process Planning, and Systems
IAI: None *1.2*
Manufacturing Methods, Process Planning, and Systems studies the techniques, equipment and systems for successful manufacturing production. Students learn to plan an operation sequence, determine tooling requirements, and develop and utilize standard data. Lecture and case studies to improve manufacturing systems employ the principles and practices of Just-In-Time (JIT), Total Quality Management (TQM), Computer Integrated Manufacturing (CIM), and Flexible Manufacturing Systems (FMS).
Prerequisite: MTH 094 or MTH 096S
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MET 249 – MET Capstone Project
IAI: None *1.2*
This is a capstone course, emphasizing the solving of technical programs using a multidisciplinary engineering technology approach. The instructor or student may propose an area of investigation. Successful solutions will require that the student use an interactive method using varying degrees of analysis, syntheses, and evaluation. Information, such as vendor catalogs, manuals and library references will be used. The project findings will be presented by the student in both oral and written form. This course is intended to be taken the final semester prior to graduation.
Prerequisite: SPH 131, MET 133, MET 146, MET 162, MET 217.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 250 – Special Topics in Manufacturing
IAI: None *1.2*
Special Topics in Manufacturing teaches the tools and strategies of specific needs or interest in modern manufacturing. A special topic requires: adequate and available materials on a specific manufacturing related issue, a comprehensive course outline, instructor expertise, student and community interest, and ability to increase skill and/or knowledge in manufacturing technology. Variable and repeatable credit up to 6 credit hours may be earned.
Prerequisite: determined by the special topic and consent of instructor.
Credit: 1-6 semester hours
Lecture: 1-6 *Lab: 0-4*

Marketing MKT

MKT 260 – Principles of Marketing
IAI: None *1.1*
Principles of Marketing presents a basic understanding of the principles of marketing and of the operation of our marketing system. Topics include buying motives, habits, demands of consumers, channels of distribution, marketing functions, policies, marketing costs, and governmental relationships.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MKT 265 – Salesmanship
IAI: None *1.2*
Salesmanship is the study of personal selling as a part of the marketing process. Consumer behavior, persuasion, the importance of a positive attitude, careers in sales, the sales process, and specific sales techniques are discussed. Optional video-taped presentations and sales projects provide the student with a means of evaluating and improving sales performance.
Prerequisite: MKT 260 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MKT 266 – Principles of Advertising
IAI: None *1.2*
Principles of Advertising is an introduction to advertising. Why advertising is carried on, how to prepare and present purposeful advertisements, and a review of the various advertising media, as well as when and how to use each to greatest advantage.
Prerequisite: MKT 260 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MKT 281 –
International Marketing
IAI: None *1.2*

International Marketing allows students to gain a broad understanding of the field of international marketing. The course provides insight into how international marketing is conducted, the requisites for effective performance and knowledge of the special problems involved in language, finance and customs. Most importantly, it assists students in understanding international marketing opportunities and how marketing principles and procedures apply to international business.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MKT 288 –
Customer Relations
IAI: None *1.2*

Customer Relations is a study of principles and methods to keep customers once you have developed them. Today, it costs five times as much to get a new customer as it does to keep an old one. Discussion is held on a practical level. Topics include customer expectations, staff training and management, maintaining good customer relations, turning service opportunities into sales and changing complaints into orders.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MKT 293 –
Internship – Marketing
IAI: None *1.2*

Internship – Marketing requires the student to work part-time as a marketing intern in a local cooperating business firm. This experience will be supervised by the coordinator of marketing programs. Consent of the Dean is required.
Prerequisite: At least six (6) credits in Marketing, previously or concurrently. This course is repeatable three (3) times.
Credit: 1-3 semester hours
Lecture: 0 *Lab: 5-15*

MKT 295 –
Independent Study in Marketing
IAI: None *1.2*

Independent Study in Marketing allows the student to conduct research in special marketing related areas based on student goals and objectives. Consent of the Dean of the Business Division is required.
Prerequisite: Enrollment in one of the marketing curriculums. This course is repeatable three (3) times.
Credit: 1-3 semester hours
Lecture: 1-3 *Lab: 0*

Mass Communication COM

COM 130 –
Introduction to Mass Communication
IAI: MC 911 *1.1*

Introduction to Mass Communication will examine the nature and impact of the mass media on our society and provide an overview of the nature, functions, responsibilities, and history of the mass communication industries in a global environment. Students will examine ethical, legal moral, and historical issues created by the use of mass media.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COM 140 –
Writing for Multimedia
IAI: MC 922 *1.1*

Writing for Multimedia is an introduction to the basic writing skills necessary to create messages for the multimedia environment, such as web-based and other digital formats including text, audio, stills, and moving images.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COM 156 –
Audio Production I
IAI: MC 915 *1.1*

Audio Production I is a basic introduction to the equipment, facilities, and terminology of the audio media industry. Students will work on individual and group recording projects including: public service announcements, radio, news and sound effects production. Students will be introduced to sound recording for video and non-linear multi-track audio editing and streaming audio on the web. Students are required to enroll concurrently in COM 157.
Prerequisite: None
Corequisite: COM 157
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

COM 157 –
Video Production I
IAI: MC 916 *1.1*

Video Production I is a basic introduction to the equipment, facilities, and terminology of the video media industry. Students will work in a multiple camera studio producing: newscasts, public service announcements, commercials and talk shows. Students will also be introduced to the fundamentals of script writing, non-linear video editing, field and studio lighting and field production. Students are required to enroll concurrently with COM 156.
Prerequisite: None
Corequisite: COM 156
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

COM 246 –
Music Technology
IAI: None *1.1*

Music technology is a course designed to teach acoustics, sound recording and sound recording technology to students who are majoring in music.
Prerequisites: MUS 111 and MUS 131
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

COM 251 –
Film History and Appreciation
IAI: F2 908 *1.1*

Film History and Appreciation is a survey of film as an art form and an industry. Particular emphasis is placed on lighting, sound, genre characteristics, image composition, editing, criticism, and social implications.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COM 252 –
International History of Film
IAI: F2 909 *1.1*

International History of Film is a survey of major worldwide film movements, genres, directors and principal films with the purpose of understanding the social, economic, and political situations that have led to the medium's evolution.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COM 256 –
Advanced Audio Production
IAI: None *1.1*

Advanced Audio Production is designed to give students specialized training in the audio recording industry. Students will work on group projects that include album production, Foley audio production, ADR and advanced non-linear digital multi-track recording. These projects will be completed in the studio and in the field.
Prerequisite: COM 156
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

COM 257 –
Advanced Video Production
IAI: None *1.1*

Advanced Video Production is designed to give students specialized training in the video production industry. Students will produce multiple group and independent projects. These projects include: a weekly television production, music videos, video art projects, short films and documentary. This course will provide students with advanced knowledge of non-linear video editing systems and field camera work.
Prerequisite: COM 156 and COM 157 or consent of instructor.
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

COURSE DESCRIPTIONS

COM 260 – Advanced Post-Production
IAI: None *1.2*
Advanced Post-Production instructs students in the areas of motion graphics, color grading, compression and other image processing techniques. Students will develop skills in working with industry standard software and will apply those skills to existing media projects.
Prerequisite: COM 257
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

COM 296 – Documentary Production
IAI: None *1.1*
Documentary Production provides students with an overview of the history of the documentary film genre and with the skills necessary to produce a documentary film. Students will explore interview techniques, lighting, editing, and exhibition venues. The course will culminate in the production of a personal documentary.
Prerequisite: COM 157
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COM 297 – Motion Picture Production
IAI: None *1.1*
Motion Picture Production is an advanced video production course that will allow students to produce a professional quality documentary or fiction film as a group project. The specific subject of the course will vary each year. Categories include sitcom production, fiction film, and documentary.
Prerequisite: COM 156/157 and consent of instructor.
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

COM 298 – Mass Communication Internship
IAI: None *1.1*
Mass Communication Internship provides elective credit for serving as a student intern for a media production facility including Rock Valley College. Students will learn about production equipment, operation, media selection, media planning, scripting, advertising, promotions and internal methodology.
Prerequisite: Varies with cooperating agency.
Credit: 1-2 semester hours
Lecture: 0 *Lab: 2*

Mathematics MTH

MTH 086 – Basic Math Skills
IAI: None *1.4*
Basic Math Skills is designed for students who need a review of basic mathematical skills in preparation for further studies in mathematics courses. Topics include operations with whole numbers and fractions. Emphasis is placed on accurate calculations; no calculators will be used through the entire module. Study skills will be incorporated throughout the course. Placement into MTH 086 is according to placement test scores or on a voluntary basis. Credit earned does not count towards any degree, nor does it transfer.
Prerequisites: Appropriate math placement score.
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

MTH 088 – Prealgebra Part I
IAI: None *1.4*
Prealgebra Part I includes a review of basic arithmetic skills while introducing algebra concepts. Topics include operations with integers, signed fractions, and mixed numbers, solving equations, and problem solving. No calculators will be used through the entire module. Study skills will be incorporated throughout the course. Placement into MTH 088 is according to placement test scores or on a voluntary basis. Credit earned does not count toward any degree, nor does it transfer.
Prerequisite: MTH 086 or equivalent, with a grade of "C" or higher OR appropriate math placement score.
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

MTH 089 – Prealgebra Part II
IAI: None *1.4*
Prealgebra Part II continues work in prealgebra concepts. Topics include operations with decimals, ratio, proportion, percent, graphing ordered pairs, introduction to graphing linear equations, geometry, and measurement. Study skills will be incorporated throughout the course. Credit earned does not count toward any degree, nor does it transfer.
Prerequisite: MTH 088 with a grade of "C" or higher.
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

MTH 091 – Beginning Algebra Part I
IAI: None *1.4*
Beginning Algebra Part I will cover real numbers, solving linear equations and inequalities including applications, and graphing linear equations and inequalities. Study skills will be incorporated throughout the course. Placement into MTH 091 is according to placement test scores or on a voluntary basis. Credit earned does not count toward any degree, nor does it transfer.
Prerequisite: MTH 088 and MTH 089, or equivalent, with a grade of "C" or higher in both OR appropriate math placement score.
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

MTH 092 – Beginning Algebra Part II
IAI: None *1.4*
Beginning Algebra Part II continues work in basic algebra concepts. It will cover operations on systems of equations in two variables, polynomials, factoring, dimensional analysis, ratio and proportion. Study skills will be incorporated throughout the course. Credit earned does not count toward any degree, nor does it transfer.
Prerequisite: MTH 091 with a grade of "C" or higher.
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

MTH 093 – Intermediate Algebra Part I
IAI: None *1.4*
Intermediate Algebra Part I includes a review of factoring from beginning algebra. The course will also cover rational expressions and equations, linear equations, and an introduction to functions. Placement into MTH 093 is according to placement test scores or on a voluntary basis. Credit earned does not count toward any degree, nor does it transfer.
Prerequisite: MTH 091 and MTH 092, or equivalent, with grades of "C" or higher in both OR appropriate math placement score.
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

MTH 094 – Intermediate Algebra Part II
IAI: None *1.4*
Intermediate Algebra Part II covers systems of equations, radicals, and quadratic equations. Credit earned does not count toward any degree, nor does it transfer.
Prerequisite: MTH 093 with a grade of "C" or higher.
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

MTH 096A – Mathematical Literacy for College Students
IAI: None *1.4*
Mathematical Literacy for College Students is a one-semester course for non-math and non-science majors integrating numeracy, proportional reasoning, algebraic reasoning, and functions. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. Throughout the course, college success content will be integrated with mathematical topics. This course uses online homework. Credit earned does not count toward any degree, nor does it transfer. Upon successful completion of the course, students may take MTH 115, MTH 220, MTH 093-094, or MTH 096S.
Prerequisite: MTH 088 and MTH 089, OR equivalent, with grades of "C" or higher in both OR appropriate placement score.
Credit: 6 semester hours
Lecture: 6 *Lab: 0*

MTH 096S –
Combined Beginning and Intermediate Algebra
IAI: None *1.4*
Combined Beginning and Intermediate Algebra is a one-semester course covering both beginning and intermediate algebra. The topics included are real number operations and properties, linear equations and inequalities, graphing, functions, polynomials, factoring, rational expressions, systems of equations, radical expressions, and quadratic equations. Credit earned does not count toward any degree, nor does it transfer.
Prerequisite: MTH 088 and MTH 089, OR equivalent, with grades of "A" in both OR sufficiently high math placement test score OR consent of instructor.
Credit: 6 semester hours
Lecture: 6 *Lab: 0*

MTH 097 –
Elementary Plane Geometry
IAI: None *1.4*
Elementary Plane Geometry is a course in the fundamental concepts of geometry intended for students who lack credit in one year of elementary geometry or desire a review of this subject matter. This course is considered equivalent to a one-year course in high school geometry. The topics included are deductive reasoning and proof, congruent triangles, parallel and perpendicular lines, parallelograms and other polygons, similar triangles, right triangles and the Pythagorean Theorem, circles, perimeter, area, and volume. Credit earned does not count toward any degree, nor does it transfer.
Prerequisite: MTH 091 and MTH 092, OR equivalent, with grades of "C" or higher in both.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MTH 100 –
Technical Mathematics
IAI: None *1.2*
Technical Mathematics is primarily for technology students. It is designed for students with a good algebraic preparation and includes basic study and applications of trigonometry. The course includes a study of exponents, radicals, and logarithms.
Prerequisite: MTH 094 and MTH 097, or equivalent, with grades of "C" or higher in both.
Credit: 5 semester hours
Lecture: 5 *Lab: 0*

MTH 115 –
General Education Mathematics
IAI: M1 904 *1.1*
General Education Mathematics focuses on mathematical reasoning and the solving of real-life problems, rather than on routine skills and appreciation. Three or four topics are studied in depth, with at least 3 chosen from the following list: geometry, counting techniques and probability, graph theory, logic/set theory, mathematics of finance, and statistics. The use of calculators and computers is strongly encouraged.
Prerequisite: MTH 094 and MTH 097, or MTH 096A, or equivalent, with grades of "C" or higher in each course.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MTH 120 –
College Algebra
IAI: None *1.1*
College Algebra includes a review of intermediate algebra, though it covers the overlapping material more quickly and at a deeper level. The course also develops the concept of a function and its graph, inverse functions, exponential and logarithmic functions and their applications, and systems of linear equations and the matrix methods useful in solving those systems. The course will also cover the theory of equations.
Prerequisite: MTH 094 and MTH 097, or equivalent, with grades of "C" or higher.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MTH 125 –
Plane Trigonometry
IAI: None *1.1*
Plane Trigonometry is a study of trigonometric functions of acute and general angles, inverse functions, graphs, radian measure, trigonometric identities and equations, solutions of right and oblique triangles, powers and roots of complex numbers, and may include analytic geometry.
Prerequisite: MTH 120, or equivalent, with a grade of "C" or higher.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MTH 132 –
College Algebra and Trigonometry
IAI: None *1.1*
College Algebra and Trigonometry is intended for students preparing for MTH 135 and it covers the material of MTH 120 and MTH 125 at a more rapid pace than those individual courses. Among the topics covered in this course are functions and graphs, including linear, polynomial, rational, exponential, and logarithmic functions; complex numbers and theory of equations; trigonometric functions, their basic properties and graphs; identities; inverse trigonometric functions; trigonometric equations; Law of Sines, Law of Cosines; systems of linear equations and the matrix methods useful in solving those systems; and conics. Students may not earn more than six credits for any combination of MTH 120, 125, and 132. A graphing calculator is required for this course.
Prerequisite: MTH 094 and MTH 097, OR equivalent of both courses, with grade of "C" or higher in each course.
Credit: 5 semester hours
Lecture: 5 *Lab: 0*

MTH 135 –
Calculus with Analytic Geometry I
IAI: M1 900-1
IAI: MTH 901 *1.1*
Calculus with Analytic Geometry I is a first course in calculus. Topics included are: a review of functions, trigonometric functions, inverse functions, and exponential/logarithmic functions; limits, continuity, derivatives, applications of derivatives, and integrals.
Prerequisite: MTH 120 and MTH 125, OR MTH 132, or equivalent, with grades of "C" or higher.
Credit: 5 semester hours
Lecture: 5 *Lab: 0*

MTH 160 –
Topics from Finite Mathematics
IAI: M1 906 *1.1*
Topics From Finite Mathematics is for students enrolled in computer and information systems, business, or the social sciences. Topics include simultaneous equations, matrices, linear programming, mathematics of finance, sets, probability and statistics. This course is not intended to apply toward a major or minor in mathematics.
Prerequisite: MTH 120, or equivalent, with a grade of "C" or higher.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MTH 164 –
The Computer in Mathematics – C/C++
IAI: None *1.1*
The Computer in Mathematics C / C + + is a problem-oriented approach using the computer in the study of mathematics. Programs will be written and run to aid understanding of such topics as infinite series, logical relations, approximations, interpolation, graphing and matrices. Problem formulation, algorithm development, and aspects of program testing and debugging will be discussed.
Prerequisite: MTH 135, or equivalent, with a grade of "C" or higher.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

MTH 211 –
Calculus for Business and Social Sciences
IAI: M1 900-B *1.1*
Calculus for Business and the Social Sciences covers basic concepts of differential and integral calculus with applications in business and social sciences. Topics include differentiation techniques, applications of the derivative, integration techniques, and applications of integration. This course is not intended to apply toward a major or a minor in mathematics. A graphing calculator is required for this course.
Prerequisite: MTH 120, or equivalent, with a grade of "C" or higher.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

COURSE DESCRIPTIONS

MTH 216 – Mathematics for Elementary Teachers I
IAI: None *1.1*
Mathematics for Elementary Teachers I is for students intending to major in elementary education. This course includes mathematical reasoning and problem solving using manipulatives, and calculators. Topics include sets, the origin of numbers and numerals, systems of numeration, functions, whole numbers, number theory, integers, rational numbers, and irrational numbers and the real number system.
Prerequisite: MTH 094 and MTH 097, or equivalent, with grades of "C" or higher in both.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MTH 217 – Mathematics for Elementary Teachers II
IAI: M1 903 *1.1*
Mathematics for Elementary Teachers II is for students intending to major in elementary education. The course includes mathematical reasoning and problem solving using manipulatives, and calculators. Topics include statistics, probability, basic geometric shapes and their properties, measurement, triangle congruence and similarity, coordinate geometry, and transformational geometry.
Prerequisite: MTH 216, or equivalent, with a grade of "C" or higher.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MTH 220 – Elements of Statistics
IAI: M1 902 *1.1*
Elements of Statistics is intended primarily for students enrolled in life science or the social sciences, or others interested in elementary statistics. This course uses the graphing calculator extensively to allow emphasis on conceptual understanding instead of hand calculations. Topics included are measures of central tendency and variability, graphical presentation of data, normal and binomial distributions, t- and chi-square distributions, sampling, and correlation. This course is not intended to apply toward a major or minor in mathematics.
Prerequisite: MTH 094 and MTH 097, OR MTH 096A, or equivalent, with grades of "C" or higher.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MTH 235 – Calculus with Analytic Geometry II
IAI: M1 900-2
IAI: MTH 902 *1.1*
Calculus with Analytic Geometry II is a continuation of MTH 135. Topics included are applications of the definite integral, techniques of integration, conic sections, parametric equations, polar coordinates, infinite series, and Taylor series.
Prerequisite: MTH 135, or equivalent, with a grade of "C" or higher.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

MTH 236 – Calculus with Analytic Geometry III
IAI: M1 900-3
IAI: MTH 903 *1.1*
Calculus with Analytic Geometry III is a continuation of MTH 235. Topics included are analytic geometry of three-dimensions, vectors, partial derivatives, multiple integrals, and vector calculus.
Prerequisite: MTH 235, or equivalent, with a grade of "C" or higher.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

MTH 240 – Differential Equations
IAI: MTH 912 *1.1*
Differential Equations is a course in the formulation, solution, and application of first- and simple higher-order differential equations. Topics included are first- and second-order ordinary differential equation with applications; simultaneous differential equations with applications; solution of differential equations by varied techniques, including Laplace transforms, numeric and/or series methods. Other optional topics include special functions and boundary value problems. (Offered spring semester.)
Prerequisite: MTH 236, or equivalent, with a grade of "C" or higher OR concurrent enrollment in MTH 236.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MTH 250 – Modern Linear Algebra
IAI: MTH 911 *1.1*
Modern Linear Algebra is a study of elementary topics of linear algebra which include: matrix algebra and inversion; solving systems of linear equations; determinants; vector spaces, linear dependence, basis and dimension, subspaces; inner product spaces and orthogonality; linear transformations (including matrices); eigenvalues and eigenvectors. An emphasis will be put on formal methods of mathematical proof throughout the course.
(Offered fall semester.)
Prerequisite: MTH 236, or equivalent, with a grade of "C" or higher OR concurrent enrollment in MTH 236.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

Modern Languages

In which level of foreign language study should a student enroll?

If a student has taken a foreign language in high school within the last three years, use this simple formula:
- Multiply the number of semesters of high school foreign language study by the numeric equivalent of the grade earned (A=4; B=3; C=1; D=0; F=0).
- Then divide the total by 2.
- If the total is:

0 - 2.5	enroll in 101
3 - 4.5	enroll in 102
5 - 9.5	enroll in 203
10 - 12.5	enroll in 204
13 - 16	enroll in 205

If students place into a course above 101, they may petition to receive the equivalent college credits for the course or courses they did not have to take at RVC. Upon successful completion (a grade of B or better) of the advanced course, students can request retroactive credit for the lower class. Contact the Modern Languages Department for full details.

Finally, if the last semester of high school foreign language study was more than three years ago, or language skills have been acquired from sources other than secondary education, students may take the Rock Valley College Foreign Language Placement/Proficiency Exam. Results on this exam may indicate eligibility to begin an advanced course in that language. Please contact modern language faculty if you have any questions or need assistance.

FRN 101 – Beginning French
IAI: None *1.1*
Beginning French emphasizes basic communication skills in French, including listening, speaking, reading and writing. Students will learn about the culture of selected French-speaking areas.
Prerequisite: None
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

FRN 102 – Continuation of Beginning French
IAI: None *1.1*
Continuation of Beginning French builds upon and expands the knowledge acquired in Beginning French.
Prerequisite: FRN 101 with a grade of "C" or higher; or the equivalent by high school credit or proficiency. See above explanation of placement.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

FRN 203 –
Intermediate French
IAI: None *1.1*
Intermediate French is the third semester of the foreign language sequence, and is conducted entirely in French. In addition to reviewing first-year concepts, students will expand their knowledge of the grammatical structures of the language, participate in conversations on studied topics, increase their ability to understand spoken language, and learn more about the culture of the countries where French is spoken. Students will write short compositions, students may be asked to write cultural reports and/or give oral presentations.
Prerequisite: FRN 102 with a grade of "C" or higher; equivalency by high school credit or proficiency.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FRN 204 –
Continuation of Intermediate French
IAI: H1 900 *1.1*
Continuation of Intermediate French is the fourth semester of the foreign language sequence, and is conducted entirely in French. Students will expand their knowledge of the grammatical structures of the language, participate in conversations on studied topics, increase their ability to understand spoken language, and learn more about the culture of the countries where French is spoken. Students will write short compositions, students may be asked to write cultural reports and/or give oral presentations.
Prerequisite: FRN 203 with a grade of "C" or higher; equivalency by high school credit or proficiency.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

GRM 101 –
Beginning German
IAI: None *1.1*
Beginning German emphasizes basic communicative skills in German, including listening, speaking, reading and writing. Students will learn about the culture of selected German-speaking areas.
Prerequisite: None
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

GRM 102 –
Continuation of Beginning German
IAI: None *1.1*
Continuation of Beginning German builds upon and expands the knowledge acquired in Beginning German.
Prerequisite: GRM 101 with a grade of "C" or higher; or the equivalent by high school credit or proficiency. See above explanation of placement.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

GRM 203 –
Intermediate German
IAI: None *1.1*
Intermediate German is the third semester of the foreign language sequence, and is conducted entirely in German. In addition to reviewing first-year concepts, students will expand their knowledge of the grammatical structures of the language, participate in conversations on studied topics, increase their ability to understand spoken language, and learn more about the culture of the countries where German is spoken. Students will write short compositions and give an oral presentation.
Prerequisite: GRM 102 with a grade of "C" or higher; equivalency by high school credit or proficiency.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

GRM 204 –
Continuation of Intermediate German
IAI: H1 900 *1.1*
Continuation of Intermediate German is the fourth semester of the foreign language sequence, and is conducted entirely in German. Students will expand their knowledge of the grammatical structures of the language, participate in conversations on studied topics, increase their ability to understand spoken language, and learn more about the culture of the countries where German is spoken. Students will write short compositions and give an oral presentation.
Prerequisite: GRM 203 with a grade of "C" or higher; equivalency by high school credit or proficiency.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SPN 101 –
Beginning Spanish
IAI: None *1.1*
Beginning Spanish emphasizes basic communicative skills in Spanish, including listening, speaking, reading and writing. Students will learn about the culture of selected spanish-speaking countries.
Prerequisite: None
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

SPN 102 –
Continuation of Beginning Spanish
IAI: None *1.1*
Continuation of Beginning Spanish builds upon and expands the knowledge acquired in Beginning Spanish.
Prerequisite: SPN 101 with a grade of "C" or higher; or the equivalent by high school credit or proficiency. See above explanation of placement.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

SPN 203 –
Intermediate Spanish
IAI: None *1.1*
Intermediate Spanish is the third semester of Spanish study. Students review and amplify listening, reading, writing, and speaking skills in a cultural context. The class is taught entirely in Spanish. Students may be required to write reports and/or give oral presentations.
Prerequisite: SPN 102 with a grade of "C" or higher; or the equivalent by high school credit or proficiency.
See above explanation of placement.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SPN 204 –
Continuation of Intermediate Spanish
IAI: H1 900 *1.1*
Continuation of Intermediate Spanish builds upon and expands the knowledge acquired in the previous three semesters of Spanish study. The class is taught entirely in Spanish. Students may be required to write reports and/or give oral presentations.
Prerequisite: SPN 203 with a grade of "C" or higher; or the equivalent by high school credit or proficiency.
See above explanation of placement.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SPN 205 –
Advanced Spanish Conversation
IAI: None *1.1*
Advanced Spanish Conversation is for students who have successfully completed at least three semesters of college Spanish or the equivalent and wish to continue practicing the language in a conversational context. Students will enlarge their active vocabulary and apply it in a variety of contextual situations. They will learn to describe events and discuss issues of historical, literary, and cultural relevance to the Spanish-speaking world using the correct idiomatic expressions, tenses and grammatical structures. The main focus of the class is conversational but the content will be mostly based on cultural aspects of Spain and Latin America. This class is conducted exclusively in Spanish. Students will give oral presentations. May be taken together with SPN 204.
Prerequisite: 3 semesters of college or 4 years of high school Spanish.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

SPN 215 –
Spanish Grammar for Native/Heritage Speakers
IAI: None *1.1*
This class is for students who grew up speaking Spanish at home, but who have little or no formal study of the language. The purpose is to develop, maintain and enhance proficiency in Spanish by providing a variety of opportunities. It is an intensive course on Spanish grammar with special emphasis given to grammatical forms that tend to present difficulties to native speakers as well as the correction of typical errors created by the influence of the English language. The class will allow students to explore the cultures of the Hispanic world including their own and it will enable them to gain a better understanding of the nature of their own language and culture. Class is conducted exclusively in Spanish.
Prerequisite: To be a native or heritage speaker of Spanish (i.e., of Hispanic descent and use Spanish to communicate at home.) This class cannot be taken in conjunction with the regular Spanish sequence 101-102-203-204, but can be taken INSTEAD of the regular four semester Spanish classes. Permit by instructor needed.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

Music MUS

MUS 101 –
Fundamentals of Music
IAI: None *1.1*
Fundamentals of Music is a study of the basic principles (elements of music including pitch, notation, scales, key signatures and intervals) for students with little or no previous music experience.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MUS 102 –
Introduction to Music Literature
IAI: F1 900, FI 901 *1.1*
Introduction to Music Literature is a study of the masterpieces of musical literature through a survey of standard concert repertory and its historical development. This is a non-technical course for students who are not concentrating in music.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MUS 104 –
Introduction to American Music
IAI: F1 904 *1.1*
Introduction to American Music is a survey of 20th century American music with some attention given to historical developments that brought about this music. Serious, jazz, musical theater and popular styles will be discussed. Listening to representative examples will be an important part of the class. This is a non-technical course for students who are not concentrating in music.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MUS 105 –
Music for Elementary Teachers
IAI: None *1.1*
Music for Elementary Teachers is a study of basic skills for teaching music in the elementary grades through activities in singing, listening, playing and moving to music. The course stresses understanding music fundamentals and using the piano and other basic instruments.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MUS 106 –
Introduction to Non-Western Music
IAI: F1 903N *1.1*
Introduction to Non-Western Music is a survey of music from Asia, the Middle East, Africa, South America, the Caribbean and Central America. Emphasis will be placed on exploring the cultural, social, religious and historical backgrounds that shaped the music of these regions. Musical instruments from these areas will also be examined. This is a non-technical course for students who are not concentrating in music.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MUS 111 –
Theory of Music I
IAI: None *1.1*
Theory of Music I is a study of elementary music forms and the basic principles of chord structure and progression including four-part writing of diatonic harmony, sight-singing, dictation and rhythmic drills.
Prerequisite: MUS 101 or equivalent.
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

MUS 112 –
Theory of Music II
IAI: None *1.1*
Theory of Music II is a continuation of MUS 111.
Prerequisite: MUS 111 or equivalent.
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

MUS 122–130 –
Applied Music for Non-Majors
IAI: None *1.1*
Applied Music for Non-Majors is for students who intend to minor in music and/or participate in one or more of the college music ensembles and therefore, want to improve their musical skills. A weekly one-half hour lesson with the instructor and daily individual practice are required. In addition to the credit hour fee, a private lesson charge will be assessed. Each of the following applied music courses may be taken four times for credit. However, only eight credits in applied music can be counted toward an A.A. or A.S. degree.
Prerequisite: Consent of the course instructor, and consent of a RVC music instructor, is required.
Credit: 1 semester hour
Lecture: .5 *Lab: 1*

MUS 122 –
Applied Jazz Guitar for Non Majors
IAI: None

MUS 123 –
Applied Piano for Non Majors
IAI: None

MUS 124 –
Applied Voice for Non Majors
IAI: None

MUS 125 –
Applied Strings for Non Majors
IAI: None

MUS 126 –
Applied Brass for Non Majors
IAI: None

MUS 127 –
Applied Woodwinds for Non Majors
IAI: None

MUS 128 –
Applied Percussion for Non Majors
IAI: None

MUS 129 –
Applied Classical Guitar for Non Majors
IAI: None

MUS 130 –
Applied Music for Non Majors
IAI: None

MUS 131 –
Class Piano I
IAI: None *1.1*
Class Piano I is for the non-piano major and for those who need or desire basic keyboard skills.
Prerequisite: None
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

MUS 132 –
Class Piano II
IAI: None *1.1*
Class Piano II is a continuation of MUS 131.
Prerequisite: MUS 131 or equivalent.
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

MUS 133 –
Class Piano III
IAI: None *1.1*
Class Piano III is a continuation of Class Piano II/MUS 132.
Prerequisite: MUS 132
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

MUS 134 –
Class Piano IV
IAI: None *1.1*
Class Piano IV is a continuation of Class Piano III/MUS 133.
Prerequisite: MUS 133
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

MUS 143 –
Class Voice I
IAI: None *1.1*
Class Voice I is a study of basic exercises and theory needed in developing technique in singing for the non-voice major and student with no previous training. Class discussion and drill are coupled with attention to individual problems and development.
Prerequisite: Previous choral experience is helpful and concurrent enrollment in MUS 191 or 291 is suggested.
Credit: 2 semester hours
Lecture: 2 *Lab: 1*

MUS 144 –
Class Voice II
IAI: None *1.1*
Class Voice II is a continuation of MUS 143.
Prerequisite: MUS 143 or equivalent. Concurrent enrollment in MUS 191 or 291 is suggested.
Credit: 2 semester hours
Lecture: 2 *Lab: 1*

MUS 191 –
Chorus I
IAI: None *1.1*
Chorus I is open to students who wish to sing standard and contemporary choral literature. Chorus members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit.
Prerequisite: Previous singing experience.
Credit: 1 semester hour
Lecture: 0 *Lab: 3*

MUS 192 –
Chamber Singers I
IAI: None *1.1*
Chamber Singers I is open by audition to students who wish to perform in a select vocal chamber ensemble. The ensemble sings standard and contemporary vocal chamber music. Members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit.
Prerequisite: Satisfactory vocal audition. Concurrent enrollment in MUS 191 or 291 is suggested.
Credit: 1 semester hour
Lecture: 0 *Lab: 3*

MUS 193 –
Women's Choir I
IAI: None *1.1*
Women's Choir I is open by audition to (female) students who wish to perform in a select women's vocal chamber ensemble. The ensemble sings standard contemporary choral literature written exclusively for women's voices. Members are expected to perform at concerts and certain other scheduled events. May be repeated three times for credit.
Prerequisite: Satisfactory vocal audition. Concurrent enrollment in MUS 191 or 291 is suggested.
Credit: 1 semester hour
Lecture: 0 *Lab: 3*

MUS 194 –
Instrumental Ensemble I (Jazz Ensemble)
IAI: None *1.1*
Instrumental Ensemble I is open to students who wish to perform in Jazz Ensemble or other small instrumental groups. Members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit.
Prerequisite: Previous playing experience. For Jazz Ensemble, concurrent enrollment in MUS 195 or 295 by woodwind, brass and percussion players is suggested.
Credit: 1 semester hour
Lecture: 0 *Lab: 3*

MUS 195 –
Band I
IAI: None *1.1*
Band I is open to students who play brass, woodwind, or percussion instruments. The band plays standard and contemporary band literature. Band members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit.
Prerequisite: Previous instrument playing experience.
Credit: 1 semester hour
Lecture: 0 *Lab: 3*

MUS 198 –
Orchestra I
IAI: None *1.1*
Orchestra I is open to students who play orchestral instruments. The orchestra plays standard and contemporary orchestra literature. Orchestra members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit.
Prerequisite: Previous instrument playing experience.
Credit: 1 semester hour
Lecture: 0 *Lab: 3*

MUS 211 –
Theory of Music III
IAI: None *1.1*
Theory of Music III is a study of advanced theory of music including chromatic harmony. Stylistic differences between 18th century and 19th century practice will be studied. Sight-singing and ear-training work will be continued. Original composition may be encouraged.
Prerequisite: MUS 112 or equivalent.
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

MUS 212 –
Theory of Music IV
IAI: None *1.1*
Theory of Music IV is a continuation of MUS 211. Original composition and/or arranging may be required.
Prerequisite: MUS 211 or equivalent.
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

MUS 222-230 –
Applied Music for Music Majors
IAI: None *1.1*
Applied Music for Music Majors is for students who intend to major or minor in music.
A weekly one hour lesson with the instructor and daily individual practice are required.
In addition to the credit hour fee, a private lesson charge will be assessed. Each of the following applied music courses may be repeated for additional credit; music majors should have a minimum of eight credit hours of collegiate-level applied music study to ensure transfer credit status; a total of eight credits in applied music can be counted toward an A.A. or A.S. degree.
Prerequisite: Consent of a RVC music instructor is required.
Note:
- *Students studying Applied Piano should have taken MUS 131 and MUS 132 Class Piano I and II or its equivalent in private study.*
- *Students studying Applied Voice should have taken MUS 143-Class Voice I or its equivalent in private study.*

Credit: 2 semester hours
Lecture: 1 *Lab: 2*

MUS 222 –
Applied Jazz Guitar for Music Majors
IAI: None

MUS 223 –
Applied Piano for Music Majors
IAI: None

MUS 224 –
Applied Voice for Music Majors
IAI: None

MUS 225 –
Applied Strings for Music Majors
IAI: None

MUS 226 –
Applied Brass for Music Majors
IAI: None

MUS 227 –
Applied Woodwinds for Music Majors
IAI: None

MUS 228 –
Applied Percussion for Music Majors
IAI: None

MUS 229 –
Applied Classical Guitar for Music Majors
IAI: None

MUS 230 –
Applied Music for Music Majors
IAI: None

COURSE DESCRIPTIONS

MUS 251 –
Music Literature I
IAI: F1 901 *1.1*
Music Literature I is a study of the music literature of Western Civilization from its origin to 1600. Emphasis will be on representative works of each period using videos, recordings, scores, and live performances. Stylistic difference and comparisons are stressed. The music will be considered in relation to the other fine arts and to the general historical background. The course is designed for students who intend to major in music.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MUS 252 –
Music Literature II
IAI: F1 902 *1.1*
Music Literature II is a continuation of MUS 251 from 1600 to the Late 19th Century.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MUS 253 –
Music Literature III
IAI: F1 902 *1.1*
Music Literature III is a continuation of MUS 252 from 1870 to the present. Emphasis will be placed on representative works and composers by the use of texts and recordings.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MUS 289 –
Special Topics in Music
IAI: None *1.1*
Special Topics in Music addresses different areas of interest or of need for students majoring or minoring in the music program. The topics selected by the instructor will provide an opportunity for more intensive and directed study beyond what is available in MUS 100-298; these topics may include such studies as jazz history, lyric diction for singers, topics in music history, conducting, and surveys of orchestral music. This course can be repeated three times. Credits earned in this course can be counted toward an A.A. or A.S. degree.
Prerequisite: Consent of RVC music instructor.
Credit: 1-6 semester hours
Lecture: 1-6 *Lab: 1-6*

MUS 291 –
Chorus II
IAI: None *1.1*
Chorus II is a continuation of MUS 191 and is open to students who wish to sing. The chorus sings standard and contemporary choral literature. Chorus members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit.
Prerequisite: Previous singing experience and satisfactory completion of four semesters of MUS 191.
Credit: 1 semester hour
Lecture: 0 *Lab: 3*

MUS 292 –
Chamber Singers II
IAI: None *1.1*
Chamber Singers II is a continuation of MUS 192 and is open by audition to students who wish to perform in a select vocal chamber ensemble. The ensemble sings standard and contemporary vocal chamber music. Members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit.
Prerequisite: Satisfactory vocal audition and satisfactory completion of four semesters of MUS 192. Concurrent enrollment in MUS 191 or MUS 291 is suggested.
Credit: 1 semester hour
Lecture: 0 *Lab: 3*

MUS 293 –
Women's Choir II
IAI: None *1.1*
Women's Choir II is open by audition to (female) students who wish to perform in a select women's vocal chamber ensemble. The ensemble sings standard contemporary choral literature written exclusively for women's voices. Members are expected to perform at concerts and certain other scheduled events. May be repeated three times for credit.
Prerequisite: Four semesters of successful achievement in MUS 193. Concurrent enrollment in MUS 191 or 291 is suggested.
Credit: 1 semester hour
Lecture: 0 *Lab: 3*

MUS 294 –
Instrumental Ensemble II (Jazz Ensemble)
IAI: None *1.1*
Instrumental Ensemble II is a continuation of MUS 194 and is open to students who wish to perform in Jazz Ensemble or other small instrumental groups. Members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit.
Prerequisite: Previous playing experience and satisfactory completion of four semesters of MUS 194. For Jazz Ensemble, concurrent enrollment in MUS 195 or MUS 295 by woodwind, brass and percussion players is suggested.
Credit: 1 semester hour
Lecture: 0 *Lab: 3*

MUS 295 –
Band II
IAI: None *1.1*
Band II is a continuation of MUS 195 and is open to students who play brass, woodwind, or percussion instruments. The band plays standard and contemporary band literature. Band members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit.
Prerequisite: Previous playing experience and satisfactory completion of four semesters of MUS 195.
Credit: 1 semester hour
Lecture: 0 *Lab: 3*

MUS 298 –
Orchestra II
IAI: None *1.1*
Orchestra II is open to students who play orchestral instruments. The orchestra plays standard and contemporary orchestra literature. Orchestra members are expected to perform at concerts and certain other scheduled events. This course may be taken four times for credit.
Prerequisite: Previous playing experience and satisfactory completion of four semesters of MUS 198.
Credit: 1 semester hour
Lecture: 0 *Lab: 3*

Mythology

– See Literature

Nursing Aide NAD

NAD 101 –
Nursing Aide
IAI: None *1.2*
Nursing Aide provides an introduction to the principles of patient care. Emphasis is placed on communication and technical skills necessary to function as an important member of the nursing team. Students are given opportunities to develop nursing assistant skills in a variety of laboratory and clinical settings. (Approved by the Illinois Department of Public Health.)
Prerequisites: MTH 086 and RDG 096
Credit: 7 semester hours
Lecture: 4.5 *Lab: 5*

Nursing NRS

NRS 107 –
Basic Principles of Pharmacology for Nursing
IAI: None *1.2*
This course introduces concepts of basic pharmacology. The principles of medication administration and calculation of dosages are emphasized. Practice for medication administration assignments will be required.
Prerequisite: Admission to the Practical Nursing or the Associate Degree Nursing program and MTH 093 and MTH 094, or MTH 096A or MTH 096S.
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

NRS 108 –
Pathophysiology Altered Health Concepts
IAI: None *1.2*
This course introduces mechanisms of disease and illness that affect health in individuals throughout the lifespan. Alterations in physiological processes are examined with an emphasis on client health. Pathophysiology as a foundation for professional nursing is introduced.
Prerequisite: BIO 185 or BIO 281 and 282, (highly recommended) and BIO 274, completed with grades of C or higher.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

NRS 110 –
Core Concepts I for Professional Nursing
IAI: None *1.2*
This course provides an opportunity to explore the nature and interrelationship of four components of nursing: environment, nurse, person, and health. The student is introduced to the characteristics of the healthcare delivery system, legal aspects, and the use of the nursing process and the Neuman Systems Model to assess an individual client's status, derive nursing diagnosis, plan, implement and evaluate care.
Prerequisite: Admission to the Associate Degree Nursing program, BIO 185 or BIO 281 and 282, (highly recommended), BIO 274 and PSY 170.
Corequisite: FWS 237, NRS 107, NRS 108
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

NRS 111 –
Core Concepts II for Professional Nursing
IAI: None *1.2*
This course focuses on the use of the nursing process and the Neuman Systems Model to promote physiologic wellness for individual adult clients. The common physiologic needs generally encountered by the individual client requiring care are addressed. The culminating learning experience integrates pathophysiologic and core concepts for the individual client undergoing the planned trauma of surgery. Laboratory and selected clinical experiences are assigned.
Prerequisite: NRS 110
Corequisite: FWS 237, NRS 107, NRS 108
Credit: 5 semester hours
Lecture: 2 *Lab: 6*

NRS 207 –
Pharmacology for Nursing Care
IAI: None *1.2*
This course builds on the principles of pharmacology introduced in PNU 107. Pharmacokinetic factors in drug therapy are examined in relation to the major body systems and management of client health. The pharmacological aspects of nursing care are integrated using the nursing process. Major drug classification prototypes and the related nursing implications are discussed.
Prerequisite: Admission to the Associate Degree Nursing Program or permission of the Dean. NRS 107, NRS 111.
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

NRS 210 –
Transition to Associate Degree Nursing
IAI: None *1.2*
This course focuses on the transition of the Licensed Practical Nurse into the Rock Valley College Associate Degree Nursing program. Students examine the philosophy of the associate degree program and major concepts of the role of the registered professional nurse. The course includes an emphasis on application of the nursing process and the Neuman Systems Model for selected health problems. Learning experiences are provided in the laboratory to evaluate the student's knowledge of nursing concepts and performance of selected nursing skills.
Prerequisite: Admission to the LPN Bridge for the Nursing program.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

NRS 221 –
Psychiatric Nursing
IAI: None *1.2*
Psychiatric Nursing focuses on the delivery of care through the use of the nursing process to clients and families experiencing psychiatric disorders and maladaptive behaviors. Emphasis is on the community mental health-illness continuum throughout the lifespan and assisting the client(s) with problem solving in selected community mental health settings. Laboratory and selected clinical care and community experiences are required.
Prerequisite: NRS 108 and NRS 111
Credits: 5 semester hours
Lecture: 2 *Lab: 6*

NRS 223 –
Adult Health Nursing I
IAI: None *1.2*
Adult Health Nursing I addresses the concept health care alterations in adults. Emphasis is on assisting clients with health problems related to endocrine, gastrointestinal, metabolic, elimination, and fluid/electrolyte dysfunctions. The use of the nursing process in disease prevention, health promotion, and restorative concepts is integrated. Nursing lab and selected acute care and community agency clinical experiences are required.
Prerequisite: NRS 108 and NRS 111
Credits: 5 semester hours
Lecture: 2 *Lab: 6*

NRS 225 –
Professional Nursing Role
IAI: None *1.2*
This course focuses on the entry into professional nursing practice and role transition. Emphasis is on ethical-legal issues in professional practice, political-economic issues in the delivery of healthcare and the nurse's role in management of care for the client system.
Prerequisite: NRS 221, 223, 226, 228 or Dean consent.
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

NRS 226 –
Family & Reproductive Health Nursing
IAI: None *1.2*
This course focuses on the client needs from conception through the postpartum period. Opportunities are provided to care for the intrapartum, postpartum and newborn client. Emphasis is on the nursing process, health promotion and the prevention of illness. The alterations in health related to the reproductive system are addressed. The role of the perioperative nurse and care during the perioperative period is emphasized. Selected nursing lab and acute care nursing experiences are required.
Prerequisites: NRS 221, NRS 223
Credits: 5 semester hours
Lecture: 2 *Lab: 6*

NRS 228 –
Child and Family Health Nursing
IAI: None *1.2*
This course focuses on the delivery of care through the use of the nursing process to children and families experiencing alterations in health. Emphasis is on assisting the client system with problem solving in selected community settings. Laboratory and selected clinical experiences are provided.
Prerequisites: NRS 221, NRS 223
Credits: 5 semester hours
Lecture: 2 *Lab: 6*

NRS 231 –
Adult Health Nursing II
IAI: None *1.2*
Adult Health Nursing II focuses on adult clients as individuals and families with alterations in cardiovascular and pulmonary function. Use of the nursing process in promoting and restoring health and preventing illness is integrated. Opportunities are provided to provide care for clients with a variety of cardiac and pulmonary health alterations. Selected nursing lab and acute care nursing experiences are required.
Prerequisites: NRS 221, NRS 223, NRS 226, NRS 228
Credits: 5 semester hours
Lecture: 2 *Lab: 6*

NRS 233 –
Adult Health Nursing III
IAI: None *1.2*
This course focuses on adult clients as individuals and families with alterations in cognition, sensation and motion and burn injuries from emergency care through rehabilitation. Application of the nursing process in promoting and restoring health and preventing illness is integrated. Emphasis is on student roles of health promotion, clinical competence, communication and collaboration, and judgment and critical thinking. Laboratory and selected clinical experiences will be provided.
Prerequisites: NRS 221, NRS 223, NRS 226, NRS 228
Credits: 5 semester hours
Lecture: 2 *Lab: 6*

COURSE DESCRIPTIONS

NRS 250 –
Independent Study in Nursing
IAI: None *1.2*

Independent Study in Nursing is designed for the student who desires to conduct an individual project based on personal goals and objectives in nursing. Course requirements and hours of credit are based on the nature of the subject under study. A maximum of three credits may be earned in this course.

Prerequisite: Completion of first-year nursing courses and consent of the Dean.
Credit: 1-3 semester hours
Lecture: 1-3 *Lab: 0*

NRS 251 –
Special Topics in Nursing
IAI: None *1.2*

Special Topics in Nursing is designed to explore topics of special interest in a selected area of nursing. A maximum of four credits may be earned in the course. The course may be repeated three times.

Prerequisite: None
Credit: 1-4 semester hours
Lecture: 1-4 *Lab: 0*

Office Professional OFF

OFF 115 –
File Management
IAI: None *1.2*

File Management will provide instruction to anyone needing to know the legal, technical, and social aspects of electronic notebooks, recordkeeping, groupware, document management, knowledge management, or other collaborative systems used in organizations. Students will examine office technological environments and associated strategies for managing electronic records, electronic workflow techniques, and how to establish an effective electronic document retrieval system.

Prerequisites: None
Credits: 2 semester hours
Lecture: 1 *Lab: 2*

OFF 118 –
Computer Keyboarding
IAI: None *1.2*

Computer Keyboarding is taught on a computer as an independent study course and/or as a regular short course. The course is designed so that students can acquire the skill to effectively use touch typing to input alphabetical and numerical data into a computer. A pass/fail grading system is used.

Prerequisite: None
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

OFF 121 –
Advanced Document Preparation and Design
IAI: None *1.2*

Microsoft Office Applications are designed to work together in today's complex and fast-paced business environment. In this course, students enrich basic knowledge of Office applications by focusing on content integration and advanced document design. Students use a project-based format to integrate content between Microsoft Word, Excel, PowerPoint, and Access accomplishing tasks that go beyond the capabilities of individual applications. Emphasis is on producing high-quality professional documents.

Prerequisite: PCI 106, grade of "C" or higher.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

OFF 131 –
Independent Study – Office Software Applications
IAI: None *1.2*

Independent Study – Office Software Applications is designed for those individuals who have software skills but would like the opportunity to complete additional business software applications. It provides the opportunity for students to return periodically to work with new software as it becomes popular in the business community.

Prerequisite: PCI 106 or consent of instructor.
Credit: 1-6 semester hours
Lecture: 0 *Lab: 2-12*

OFF 144 –
Insurance Procedures/Medical Office
IAI: None *1.2*

Insurance Procedures/Medical Office is an introduction to the medical insurance industry including types of insurance, coding, standard billing forms and benefit calculations.

Prerequisite: None
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

OFF 147 –
Coding
IAI: None *1.2*

Coding is designed to provide the student with basic coding knowledge in both clinical and hospital-based coding utilizing CPT, ICD-9 and DRG coding concepts.

Prerequisite: BIO 171, HLT 110
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

OFF 220 –
Advanced Coding
IAI: None *1.2*

Advanced Coding is a course designed to provide the student with advanced, hands-on coding knowledge in both clinical and hospital-based coding utilizing CPT, ICD-9 and DRG coding concepts.

Prerequisite: OFF 147
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

OFF 222 –
Office Technology Practicum
IAI: None *1.2*

Using Microsoft Office students create business documents for simulated companies. Students work with realistic workplace projects to integrate business vocabulary, critical thinking strategies, and web-research with advanced document processing skills. This course reviews both Core and Expert MOS Competencies for Microsoft Office Applications.

Prerequisite: OFF 121, Grade of "C" or higher, or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

OFF 226 –
Professional Development
IAI: None *1.2*

Professional Development is designed for the development of skills and attitudes that allow students to function successfully in the workplace. Emphasis will be placed on interpersonal skills, communication, goal-setting, employment skills, teamwork, image and other timely business topics. In addition, students will create portfolios to showcase professional work.

Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

OFF 231 –
Office Procedures
IAI: None *1.2*

Office Procedures emphasizes essential business procedures and activities. Topics include human relations, routine and administrative duties, filing and records management, office ethics, decision making, and problem-solving. Students interested in a specialized office career, such as medical or legal, will complete a semester project focusing on that area of interest. Others will complete a similar project of a general office career.

Prerequisite: None, recommended that this course be taken the last semester of attendance.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

OFF 245 –
Introduction to Health Information Technology
IAI: None *1.2*

Introduction to Health Information Technology provides an overview of the history of health information technology and the evolution of the profession. Study topics include analysis of record content, (stressing accuracy, completeness, confidentiality and correlation of data), and study of numbering and filing systems with emphasis on retention policies, storage methods and computerization.

Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

OFF 250 – Health Care Revenue Cycle

IAI: None *1.2*

The Health Care Revenue Cycle course provides concepts and practice skills used within the daily responsibilities of the revenue cycle professional. These concepts and practice units cover learning objectives related to cost analysis, contract discrepancies, census, grown abilities, charge capture/denials, as well as coding guideline updates. In addition, claims management and resolution summaries are provided.

The course is designed for professionals currently working in the Health Information field, such as in an Inpatient Business Office, Revenue Cycle, Admissions, and/or Outpatient setting, or individuals seeking the Office Professional A.A.S degree emphasizing in the Medical Office Professional option with a goal of working in health care.

Prerequisite: OFF 144 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

OFF 293 – Independent Study in Office Technology

IAI: None *1.2*

Independent Study in Office Technology allows the student to conduct research or develop an individualized project in an area of special interest in office technology. Course requirements are based on the nature of the subject. Consent of the coordinator is required.

Prerequisite: Completion of 30 semester hours of credit in the Office Technology curriculum. Repeat of this course to a maximum of three credits is permissible.
Credit: 1-3 semester hours
Lecture: 1-3 *Lab: 0*

OFF 294 – Office Internship

IAI: None *1.2*

Office Internship enables the student to work in a business setting. The student is responsible for securing the site for a full or part-time office position. The requirements for this course are individualized. Prior to enrolling, students must have approval to enroll from the instructor. This course may be repeated two times.

Prerequisite: 30 hours of credit in the Office Technology curriculum.
Credit: 1-3 semester hours
Lecture: 0 *Lab: 5-15*

Personal Computer Information Specialist PCI

PCI 106 – Microcomputer Applications/ Windows Based

IAI: BUS 902 *1.2*

Microcomputer Applications/Windows Based is a survey of current applications for microcomputers utilizing hands-on experience with popular software packages operating in the Windows environment. Topics include word processing, electronic spreadsheets, database systems, presentation software, Internet Web browser, and some background in microcomputer hardware and operating systems.

Prerequisite: Keyboard proficiency or concurrent enrollment in OFF 118.
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

PCI 200 – Microcomputer Information Systems Practicum

IAI: None *1.2*

Microcomputer Information Systems Practicum is a course designed to acquaint students with the methodologies involved in designing, developing, and documenting information systems solutions to business problems by using personal computers. The systems development life cycle methodology is presented along with Microsoft Access software. With this background, students will design a solution to their own systems problem.

Prerequisite: PCI 106, PCI 206
Credit: 3 semester hours
Lecture: 2 *Lab: 5*

PCI 206 – Advanced Microcomputer Applications/Windows Based

IAI: None *1.2*

Advanced Microcomputer Applications/ Windows Based is a survey course presenting Windows applications for microcomputers utilizing hands-on experience with popular software packages, specifically Microsoft Word, Microsoft Excel, Microsoft Access, and Microsoft PowerPoint. Topics include word processing, electronic spreadsheets and database systems along with some background in microcomputer hardware and basic Windows concepts. This course is intended to be an extension of PCI 106.

Prerequisite: PCI 106
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PCI 226 – Post Advanced Microcomputer Applications/Windows Based

IAI: None *1.2*

Post Advanced Microcomputer Applications/ Windows Based is a survey of current applications for microcomputers utilizing hands-on experience with popular software packages in the Windows environment. Topics include high-end advanced training in word processing, electronic spreadsheets, presentation software, and database systems, with an emphasis on customization and automation.

Prerequisite: PCI 106 and PCI 206
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PCI 228 – MOS Certification Preparation

IAI: None *1.2*

MOS Certification Preparation is a preparatory course for the Microsoft Office Specialist certification exam. Students will choose an exam to take from the following: Word Core, Word Expert, Excel Core, Excel Expert, Access Core, Access Expert, PowerPoint Comprehensive: then they will practice skills necessary to pass the exam. Practice exams which simulate the testing environment will be part of the course. At the end of five weeks, students will take the actual exam. Course fee includes the exam fee. Repeatable up to three times.

Prerequisite: PCI 106 and PCI 206, PCI 226 for expert level exams.
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

COURSE DESCRIPTIONS

Personal Computer Technical Specialist PCT

PCT 110 – Network Essentials
IAI: None *1.2*

Network Essentials is a course providing an introduction to local area networks (LANs). The course is useful for LAN managers, supervisors of LAN managers, users of LANs, or those considering the purchase and installation of a local area network. Topics include needs analysis, methods to evaluate and determine specifications of hardware and software for purchase, installation, management, and troubleshooting of a local area network system. Microcomputer-based local area networks will be emphasized. Students will install a local area network as part of the course.
Prerequisite: CIS 102
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PCT 111 – Microsoft Active Directory
IAI: None *1.2*

Microsoft Active Directory provides students with a comprehensive understanding of Active Directory for the current version of Windows Server; and to prepare students for server administration. This course will also help students prepare for the current Windows Active Directory certification exam. The course focuses on designing Active Directory architecture, installing and configuring supporting services, setting up and managing sites and domains, troubleshooting problems and resolving real world scenarios, and managing resources in Active Directory. Students have an opportunity to apply their knowledge through hands-on projects and case study assignments.
Prerequisite: CIS 102
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PCT 112 – Windows Server Fundamentals
IAI: None *1.2*

Windows Server Fundamentals will help develop the skills necessary to implement, install, and manage a Windows 20xx network. It will focus on Microsoft Windows 20xx. Work will begin with the utilities Windows 20xx provides with its software. Implementation of print services, security, login scripts and menus will be demonstrated. Work will be done on network analysis, trouble shooting and understanding how Windows 20xx works.
Prerequisite: PCT 110 or PCT 120
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PCT 113 – Microsoft Windows Infrastructure
IAI: None *1.2*

Microsoft Windows Infrastructure provides students with a comprehensive understanding of Windows Server Network Infrastructure. It is intended for anyone who wants to learn how to configure and maintain network infrastructure on the current version of Windows Server, as well as for those individuals seeking Microsoft certification. The course begins by examining networking concepts, installing Microsoft Windows Server, and configuring and managing DHCP and DNS server roles. Additional concepts include routing and remote access, configuring file and print services, maintaining and updating Windows Server, securing data transmission, maintaining network health, and maintaining file services. Students have an opportunity to apply their knowledge through hands-on projects and case study assignments.
Prerequisite: CIS 102
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PCT 120 – Cisco Networking I
IAI: None *1.2*

Cisco Networking I is the first of four courses in the Cisco Networking Academy program. This course's topics include networking standards, networking terminology, protocols, safety, cabling, routers, and addressing. Decision-making and problem-solving techniques are applied to solve network problems. Additional instruction is provided in maintenance and use of software, tools and equipment.
Prerequisite: CIS 102
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

PCT 122 – Cisco Networking II
IAI: None *1.2*

Router Theory and Technologies is the second course of four courses in the Cisco Networking Academy program. Topics included in this course are safety, standards, TCP/IP, routing and administration. Decision-making and problem-solving techniques are applied to solve network problems.
Prerequisite: PCT 120
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

PCT 124 – Cisco Networking III
IAI: None *1.2*

Advanced Routing and Switching is the third course of four courses in the Cisco Networking Academy. Topics included in this course are advanced router configurations, LAN switching, network management and advanced network design.
Prerequisite: PCT 122
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

PCT 126 – Cisco Networking IV
IAI: None *1.2*

Cisco Networking IV/Accessing the WAN is the fourth course in the Cisco Networking Academy program. Topics included in this course are PPP, Frame-Relay, Network Security, IP Addressing (NAT & DHCP), and ACLs.
Prerequisite: PCT 124
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

PCT 130 – Introduction to Network Security Fundamentals
IAI: None *1.2*

Introduction to Network Security Fundamentals is designed for students and professionals interested in understanding the field of network security and how it relates to other areas of Information Technology. This course covers physical security, wireless technologies, Intrusion Detection Systems, Remote Access, web security, E-mail, authentication, cryptography and various attack methodologies such as Denial of Service (DoS), man-in-the-middle and Malware.
Prerequisite: CIS 102 or equivalent computer experience.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PCT 132 – Advanced Network Security
IAI: None *1.2*

Advanced Network Security is designed for students and professionals interested in continuing their study of network security. Topics included in this course are: Network Defense design, Security Policy design, and configuration of Router IOS firewalls (software), configuring VPN solutions, Intrusion detection & Prevention Systems, Layer 2 Security and IT Security Management.
Prerequisite: PCT 126
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PCT 140 – IP Telephony I
IAI: None *1.2*

This course is designed for students and professionals interested in studying telephony and its deployment over IP networks. This course's possible topics include, but are not limited to, telecommunication concepts, the Internet and IP networking, packetized voice, IP telephony protocols, analog and digital interfaces and dial-peers.
Prerequisite: PCT 126 or CCNA Certification.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

PCT 142 –
IP Telephony II
IAI: None *1.2*
IP Telephony II is designed for students and professionals interested in studying telephony and its deployment over IP networks. This course's possible topics include, but are not limited to: Cisco CallManager Express Telephony Systems, installation, configuration, monitoring, management, and troubleshooting. The course will also cover QoS on phone and data systems.
Prerequisite: PCT 140
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

PCT 210 –
Introduction to TCP/IP
IAI: None *1.2*
Introduction to TCP/IP is designed to help the student install, configure and troubleshoot a reliable TCP/IP network. Topics included in this course are designing, building, configuring and managing TCP/IP network. The student will also implement subnets, configure routers, and explore TCP/IP under Windows NT/2000. Troubleshooting is included.
Prerequisite: PCT 110 or PCT 120
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PCT 211 –
VMware vSphere:
Install, Configure, Manage
IAI: None *1.2*
Through lectures, discussions, demonstrations, and labs, students learn the skills and knowledge necessary to install, configure and manage VMware vSphere environments. With additional effort, students can use this knowledge to pass the VCP Certification Exam and become a VMware Certified Professional. Topics will include installing the VMware ESXi server and VMware vCenter, creating virtualized switches and storage, creating and managing virtual machines, establishing access controls, and performing resource monitoring. Students have an opportunity to apply their knowledge through hands-on projects and case study assignments using the current version of the vSphere software.
Prerequisite: PCT111, PCT112, or PCT113
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PCT 220 –
Advanced Routing
IAI: None *1.2*
Advanced Routing is the first of three courses designed by Cisco Networking Academy to prepare students for CCNP Certification. This course's possible topics include, but are not limited to, EIGRP, OSPF, BGP, IPv6 and manipulating Routing updates.
Prerequisite: PCT 126 or CCNA Certification.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

PCT 224 –
Advanced Switching
IAI: None *1.2*
Advanced Switching is the second of three courses designed by Cisco Networking Academy to prepare students for CCNP Certification. This course's possible topics include, but are not limited to, VLANs (Virtual Local Area Networks), spanning tree protocol, redundant links, multilayer switching, HSRP (Hot Standby Router Protocol), multicasting, and restricting access.
Prerequisite: PCT 126 or CCNA Certification.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

PCT 226 –
Troubleshooting
IAI: None *1.2*
Troubleshooting is the last of three courses designed by Cisco Networking Academy to prepare students for CCNP Certification. This course's possible topics include, but are not limited to troubleshooting: campus switched solutions, routing solutions, addressing services, security, and converged networks.
Prerequisite(s): Must have successfully completed PCT 220 and 224 or have equivalent work experience and the CCNA Certification.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

PCT 262 –
Computer Service and Repair
IAI: None *1.2*
Computer Service and Repair is a course designed to teach the student how to install new machines in a stand-alone or networked environment. Preventive maintenance tasks, troubleshooting techniques, and emergency problem handling will also be presented along with equipment testing and the installation of systems and application software.
Prerequisite: CIS 102 and EET 100
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

PCT 270 –
Introduction to UNIX/Linux
IAI: None *1.2*
Introduction to UNIX/Linux introduces the student to the features of the UNIX/Linux operating system. Topics covered are the functions of a multi-user operating system, file system structure, basic system commands, how to configure user environments, as well as an introduction to shell programming. The student will learn the basic skills needed to function in the UNIX/Linux system environment.
Prerequisite: CIS 102; Recommended: CIS 276.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PCT 275 –
Cisco Firewall Design
IAI: None *1.2*
This course is designed for students and professionals interested in continuing their study of network security. This course's possible topics include, but are not limited to, ACLs, ASA firewalls, ASA firewall AAA authentication and ASA VPNs.
Prerequisite: PCT 126
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

PCT 290 –
Special Topics in PC Technology
IAI: None *1.2*
Special Topics in PC Technology will cover leading edge topics in the networking arena. This course will often be taught by professionals from the business world. This course may be repeated three times.
Prerequisite: Consult the schedule of classes for the current semester to determine prerequisites and other requirements or contact the instructor.
Credit: 1-6 semester hours
Lecture: 1-6 *Lab: 0*

PCT 291 –
Internship/Field Project
IAI: None *1.2*
Internship/Field Project requires a supervised experience in a networking position in a local cooperating business or non-profit organization using a cooperative training plan agreed to by the instructor, participating firm, and student. The student must submit an application to the instructor. Consent of the division director is required. Variable credit may be earned up to six hours.
Prerequisite: Current enrollment in the Personal Computer Technical Specialist curriculum, completion of at least
12 hours in PCT courses, and sophomore class standing.
Credit: 1-6 semester hours
Lecture: 0 *Lab: 5-30*

COURSE DESCRIPTIONS

Philosophy PHL

PHL 150 – Introduction to Philosophy
IAI: H4 900 *1.1*
Introduction to Philosophy is a survey of a selection of major philosophical issues. These may include: the nature of human beings, the possibility and limits of human knowledge, human freedom and responsibility, the nature of religion, the nature of beauty, and the nature of morality. The course will include a survey of philosophers, their works and some of the philosophical methods and tools used in their theorizing.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PHL 151 – Introduction to Non-Western Philosophy
IAI: H4 903N *1.1*
Introduction to Non-Western Philosophy provides a survey of Non-Western philosophical questions, methods and concepts especially in the areas of metaphysics, epistemology, ethics, theology, the philosophy of mind and social/political philosophy. The perspectives of several Non-Western philosophers will be examined, including those from traditions found in Africa, India, Eastern Asia.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PHL 152 – Environmental Ethics
IAI: H4 904 (IAI approval pending) *1.1*
Environmental Ethics is a survey course covering major ethical theories and applying them to the environment and our place in it. Topics will include a brief introduction into moral theory and historical approaches to nature and the environment, animal rights, preservation of the species, population control, global climate change, pesticides, questions regarding the intrinsic value of the Earth, economics and the environment, and obligations to future generations.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PHL 153 – Medical Ethics
IAI: None *1.1*
Medical Ethics provides an examination of a selection of moral issues that arise in healthcare contexts. These may include: truth-telling and the patient, obligations to treat in times of epidemic, universal entitlement to healthcare, assisted suicide, the AIDS crisis, healthcare reform, surrogate motherhood, and genetic engineering. Also included will be a brief examination of metaethical theories and principles to be used in analyzing the individual moral issues.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PHL 154 – Introduction to Religion
IAI: H5 900 *1.1*
Introduction to Religion is an introduction to the concept of religion within society, treating the nature, origin, beliefs, practices and roles that religion plays.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PHL 155 – World Religions
IAI: H5 904N *1.1*
World Religions is a survey of the major religions of the world. This course will include a philosophical examination of the histories and selected teachings, practices and institutions of major Eastern and Western religions, such as Buddhism, Christianity, Confucianism, Hinduism, Islam, Jainism, Judaism, Shinto, Sikhism, and Taoism.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PHL 156 – Religion in American Society
IAI: H5 905 *1.1*
A survey of the contribution of religion to American culture, including the differences between rural and urban society; the development of religious freedom and the rise of "secular religion." Examines the emergence of new forms of belief and practice and the variety of religious issues confronting American society today.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PHL 157 – Foundational Religious Texts
IAI: H5 901 *1.1*
Foundational Religious Texts is the humanistic study of one or more of the foundational documents of the world's major religions, such as the Hebrew Bible, the New Testament, the Qur'an (Koran), or the Vedas.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PHL 158 – Ancient and Medieval Philosophy
IAI: H4 901 (IAI approval pending) *1.1*
Ancient and Medieval Philosophy provides a survey of western philosophy beginning with ancient thinkers and themes and ending with the medieval period. This course examines major philosophical thinkers within their historical, social, political, scientific, and religious contexts, with an emphasis on how early philosophers used reason to make sense of the world and themselves, and how their theories continue to influence thinkers well beyond their historical period.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PHL 159 – Modern and Contemporary Philosophy
IAI: H4 902 (IAI approval pending) *1.1*
Modern and Contemporary Philosophy provides a survey of western philosophy beginning with the Renaissance and ending with the present. This course examines major philosophical thinkers within their historical, social, political, scientific, and religious contexts, with an emphasis on how they used reason to make sense of the world and themselves, and how their theories continue to influence thinkers well beyond their historical period.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PHL 255 – Logic
IAI: H4 906 *1.1*
Logic is an examination of the nature of reason and argumentation. The course will focus on developing formal and informal tools and techniques for evaluating arguments and for sharpening one's own reasoning skills. Topics covered may include: nature of thought, language and meaning, definitions, argument recognition, argument interpretation, informal fallacies, syllogistic and propositional logic.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PHL 256 – Contemporary Moral Issues
IAI: H4 904 *1.1*
Contemporary Moral Issues combines an extensive treatment of different theories of morality with an application of these theories to a selected group of particular moral issues dominant in contemporary culture. These may include such issues as war, torture and terrorism, same-sex rights, technology, immigration, capital punishment, poverty and affluence, rights to privacy, racism, sexism, violence and weapons, and animal rights.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PHL 260 – Philosophy of Religion
IAI: H4 905 *1.1*
Philosophy of Religion provides a critical examination of the central philosophical issues associated with religion. Topics may include such things as the existence and nature of a deity, good and evil, miracles, souls, life after death, and revelations and may include such relationships as those between myth and religion, religious experience and justification, faith and knowledge, and between religious beliefs and moral conduct.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

Phlebotomy Technician PLB

PLB 101 – Phlebotomy

IAI: None *1.2*

Phlebotomy covers the techniques for obtaining blood samples by venipuncture and dermal capillary procedures. Medical and laboratory terminology, anatomy of the circulatory systems, interpersonal communication, laboratory safety, legal guidelines and professional skills will be covered. During the laboratory component, the student will practice various blood collection procedures after receiving instruction and demonstration. To successfully complete PLB 101, students must complete at least 50 successful venipunctures: 30 taken from artificial arm and 20 from fellow students. Resume preparation, interviewing and job seeking skills will be covered.

Prerequisite: Completed HLT 110 with a grade of C or higher, or equivalent, and MTH 086, or consent of the Phlebotomy Coordinator. Current CPR Certification, Physical exam (<6mo), Proof of current vaccines and active titers, negative TB test, Drug Test and Criminal Background: both clean.

Credit: 5 semester hours

Lecture: 2 *Lab: 6*

PLB 102 – Phlebotomy – Clinical

IAI: None *1.2*

Phlebotomy Clinical provides skill application in a medical setting. Discussion topics include student reaction to supervised clinical experiences, professional issues related to the student's clinical rotation and/or the field of phlebotomy, communication skills appropriate for a diverse patient population, and application of customer service skills. The students will be given a list of skills to complete and document during the clinical experience and a review of safety and infection control practices and the use of universal precautions will discussed. Specific course requirements are stated in the Phlebotomy Technician Handbook. Upon successful completion, the student will be eligible to take the phlebotomy certification examination.

Prerequisite: PLB 101 Phlebotomy Technician with a C or higher, or consent of the Phlebotomy Coordinator. Admission to the Phlebotomy Technician Program required. Current CPR Certification, Physical exam (<6mo), Proof of current vaccines and active titers, negative TB test, Drug Test and Criminal Background: both clean.

Credit: 4 semester hours

Lecture: 1 *Lab: 6*

Photography

– See Graphic Arts Technology

Physical Education

– See Fitness, Wellness, and Sport

Physical Science

– See Astronomy
– See Atmospheric Science
– See Chemistry
– See Geology
– See Physical Geography
– See Physics

Physical Geography PGE

PGE 100 – Physical Geography

IAI: P1 909 *1.1*

Physical Geography is an introduction to the geographical features of the Earth's natural environment. The course examines the physical, chemical and biological processes that shape these features and control their spatial distribution; the dependence of human society on the natural environment; and the ways in which humans intentionally and unintentionally modify the natural environment.

Prerequisite: Sufficiently high placement test score, or completion of MTH 092 or MTH 096A or MTH 096S with a grade of "C" or better, or equivalent.

Credit: 3 semester hours

Lecture: 3 *Lab: 0*

PGE 102 – Physical Geography With Lab

IAI: P1 909L *1.1*

Physical Geography With Lab is an introduction to the geographical features of the Earth's natural environment. The course examines the physical, chemical and biological processes that shape these features and control their spatial distribution; the dependence of human society on the natural environment; and the ways in which humans intentionally and unintentionally modify the natural environment. The lab component of the course provides hands-on application of these geographic concepts using exercises, experiments and the interpretation of topographic maps and aerial photographs.

Prerequisite: One year of high school algebra or its equivalent. Sufficiently high placement test score, or completion of MTH 092 or MTH 096A or MTH 096S with a grade of "C' or better, or equivalent.

Credit: 4 semester hours

Lecture: 3 *Lab: 3*

PGE 240 – Global Climate Change

IAI: P1 905 *1.1*

Global Climate Change is a multidisciplinary scientific analysis of Earth's continually changing climate. The course examines the climatic responses of major systems (ice, water, air, land, flora, and fauna) throughout geologic history, emphasizing the most recent 20,000 years. Focus is on observation, hypothesis-building, and hypothesis-testing. Current ideas concerning impact of humankind on climate and future impact of climate change on humans are investigated.

Recommended: One high school- or college-level earth science or environmental biology course.

Prerequisite: Completion of MTH 220 with a grade of "C" or better, or consent of the instructor.

Credit: 3 semester hours

Lecture: 3 *Lab: 0*

Physics PHY

PHY 201 – Mechanics and Heat

IAI: P1 900L *1.1*

Mechanics and Heat is an algebra/trigonometry-based study of physics. Topics covered include kinematics, Newton's Laws, momentum, rotational motion, energy, wave motion, and heat. This course is designed to meet the requirements of many liberal arts, architectural, and pre-professional students.

Prerequisite: MTH 125 or equivalent with a minimum grade of "C."

Credit: 5 semester hours

Lecture: 4 *Lab: 3*

PHY 202 – Waves, Electricity, Light, and Modern Physics

IAI: None *1.1*

Waves, Electricity, Light, and Modern Physics is a continuation of PHY 201. Topics studied include electricity and magnetism, light and optics, and modern physics.

Prerequisite: PHY 201 or equivalent.

Credit: 5 semester hours

Lecture: 4 *Lab: 3*

PHY 215 – Mechanics, Wave Motion, and Thermodynamics

IAI: P2 900L *1.1*

Mechanics, Wave Motion, and Thermodynamics is a calculus-based study of the kinematics and dynamics of the motion of rigid bodies, wave propagation, and thermodynamics. Topics covered include accelerated motion, Newton's Laws, momentum, energy, rotational motion, gravitation, wave propagation, sound, and heat. PHY 215 and 225 are required of all students majoring in engineering, chemistry or physics. The class will meet for three hours of lecture, one hour required discussion, and three hours of laboratory per week.

Prerequisite: MTH 135 with a minimum grade of "C", and concurrent enrollment or credit in MTH 235. Recommended one year of high school physics, or PHY 201.

Credit: 5 semester hours

Lecture: 4 *Lab: 3*

COURSE DESCRIPTIONS

PHY 225 –
Electricity, Magnetism, Light, and Modern Physics
IAI: None *1.1*
Electricity, Magnetism, Light, and Modern Physics is a continuation of PHY 215. Topics studied include electric fields, electric currents, AC electric circuits, electromagnetism, relativity, optics, light and selected topics from modern physics.
The class will meet for three hours of lecture, one hour required discussion and three hours of laboratory per week.
Prerequisite: MTH 235 with a minimum grade of "C", PHY 215, and concurrent enrollment or credit in MTH 236.
Credit: 5 semester hours
Lecture: 4 *Lab: 3*

Political Science PSC

PSC 160 –
American National Government
IAI: S5 900 *1.1*
American National Government is an introduction to the national government, including its structure, powers, and relationship to the American people. Topics include the legislative, executive, and judicial branches, civil rights and civil liberties, political parties and interest groups. Current events are emphasized throughout the course.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PSC 161 –
State and Local Government
IAI: S5 902 *1.1*
State and Local Government is an introduction to state and local government in the U.S., with emphasis on Illinois state government and the local governments in the Rock Valley College area. Topics include the legislative, executive, and judicial branches of state government, the urban crisis, and the many and varied local governments in this area. Current events are emphasized throughout the course.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PSC 210 –
Introduction to the Legal System
IAI: None *1.1*
Introduction to the Legal System is an introduction to the sources, types, functions, and methods of public law and the legal system.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PSC 211 –
The American Presidency
IAI: None *1.1*
The American Presidency is a survey of the constitutional basis, historical development, and systematic study of the executive branch.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PSC 269 –
International Relations
IAI: S5 904 *1.1*
International Relations is an examination of the major factors which affect international relations with special emphasis on the political, historical, and economic elements. The material will be analyzed from the viewpoint of the United States and our foreign policy.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PSC 280 –
Introduction to Political Philosophy
IAI: PLS 913 *1.1*
Introduction to Political Philosophy is a survey of major political philosophers and concepts in the history of political thought. The course focuses on classical and modern theorists, emphasizing such concepts as justice, equality, power, liberty, and rights.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

Psychology PSY

Students who plan to major in psychology are strongly urged to take MTH 220 – Elements of Statistics.

PSY 170 –
General Psychology
IAI: S6 900 *1.1*
General Psychology is an introduction to the entire area of psychology through a presentation of historical and current theory and research. Topics include research methods, biology of behavior, sensation and perception, learning, memory, development, motivation, personality, and social and abnormal behavior.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PSY 225 –
Child Development
IAI: S6 903 *1.1*
Child Development introduces the theory, research, and changes dealing with human development from the time of conception to adolescence. Topics included are genetic factors, prenatal development, perceptual system changes, motor system development, language acquisition, social learning, cultural influences, and common problems relevant to the developmental processes.
Prerequisite: A grade of "C" or better in ENG 101 and PSY 170, or instructor consent.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PSY 250 –
Psychology of Personality
IAI: PSY 907 *1.1*
Psychology of Personality is a scientific study of the origins of individual differences in thought, emotion and behavior. Topics covered will include: research methods; personality assessment; the psychoanalytical and neopsychoanalytical approaches; the trait approach; the humanistic approach; the cognitive approach; the biological approach; and the behavioral/social learning approach.
Prerequisite: A grade of "C" or better in ENG 101 and PSY 170, or instructor consent.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PSY 270 –
Lifespan Developmental Psychology
IAI: S6 902 1.1
Lifespan Developmental Psychology reviews aspects and changes which occur during a person's life from the time of prenatal development through death
Prerequisite: A grade of "C" or better in ENG 101 and
PSY 170, or instructor consent.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PSY 271 –
Educational Psychology
IAI: None *1.1*
Educational Psychology investigates the application of psychological principles and research to the process and techniques of teaching and learning. Special emphasis is given to formal education from both the perspective of student and instructor.
Prerequisite: A grade of "C" or better in ENG 101 and PSY 170, or instructor consent.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PSY 275 –
Social Psychology
IAI: S8 900 *1.1*
Social Psychology is the study of behavior between people. The course will introduce theory and research on topics such as the self, social cognition, attitudes, prejudice and discrimination, interpersonal attraction, social influence, prosocial behavior, aggression, and group dynamics.
Prerequisite: A grade of "C" or better in ENG 101 and PSY 170, or instructor consent.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PSY 276 –
Abnormal Psychology
IAI: None *1.1*
Abnormal Psychology is the study of psychopathology, its causes, its symptoms, and its treatment. Topics covered include theories of abnormal behavior, diagnosis and classification of problems, types of abnormality, individual and societal costs, intervention and treatment.
Prerequisite: A grade of "C" or better in ENG 101 and PSY 170, or instructor consent.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

Reading RDG

Students in Developmental Reading courses are limited to a specific list of college level courses until they complete the reading series. A complete list of course options for student enrolled in any Developmental Reading Course is available at: RockValleyCollege.edu/ReadingCourseOptions.

RDG 080 – Basic Reading Skills

IAI: None *1.4*

Basic Reading Skills helps students improve their reading skills to the level necessary for entrance to Reading 096. Emphasis is on vocabulary development, comprehension, and study strategies. Placement based on entrance assessment scores.

Prerequisite: None
Credit: 5 semester hours
Lecture: 5 *Lab: 0*

RDG 092 – Reading for Bilingual Students

IAI: None *1.4*

Reading for Bilingual Students is designed for students whose first language is not English. The intent of this course is to help students improve their reading skills in English to the level necessary to succeed in RDG 099. The course will focus on comprehension, vocabulary improvement and the ability to select skills and strategies appropriate to a specific reading task. Placement based on assessment scores.

Prerequisite: None
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

RDG 096 – Essentials of Reading

IAI: None *1.4*

Essentials of Reading is intended to help students improve their reading skills to the level necessary for entrance to Reading 099. Emphasis is on improvement of vocabulary, comprehension, study strategies, and time management. Special placement based on entrance assessment scores.

Prerequisite: None
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

RDG 099 – Reading for Academic Purposes

IAI: None *1.4*

Reading for Academic Purposes emphasizes the development of reading strategies to enhance the comprehension and critical thinking of college-level material. Topics include vocabulary development, extracting implied meaning, drawing conclusions, and analyzing college texts. Placement is according to entrance assessment. RDG 099 may also be taken on a voluntary basis for students who did not test into the reading program.

Prerequisite: None
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

RDG 101 – College Reading

IAI: None *1.1*

College Reading focuses on reading flexibility, critical reading techniques, lecture processing skills, and test cycle evaluation. The course includes developing time management skills and applying study skills to individual student's college course material.

Prerequisite: Placement is voluntary to students who are not mandated into RDG 080, 096, 099. This course is highly recommended for students who have marginal assessment scores, are on academic probation, or need to develop successful study strategies.
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

Respiratory Care RSP

RSP 111 – Applied Sciences

IAI: None *1.2*

Applied Sciences provides a foundation in the basic sciences relevant to respiratory care. Areas covered include chemistry, physics, microbiology, and mathematics. (Offered fall semester.)

Prerequisite: Admission to the Respiratory Care program.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

RSP 112 – Patient Assessment

IAI: None *1.2*

Patient Assessment provides an understanding of how the patient assessment procedures of medical record review, patient interview, and physical examination are performed and how this information with radiological examination and laboratory assessment can be used to evaluate a patient's health status and response to treatment. (Offered fall semester.)

Prerequisite: Admission to the Respiratory Care program. Completion of BIO 185, or BIO 281 & BIO 282 with a minimum grade of "C" or higher.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

RSP 113 – Cardiopulmonary Anatomy and Physiology

IAI: None *1.2*

Cardiopulmonary Anatomy and Physiology provides an in-depth study of pulmonary and cardiovascular anatomy and physiology. Ventilation, circulation, blood gas transport, and acid-base balance are closely examined. Kidney function and fetal pulmonary and cardiovascular development are also studied. (Offered fall semester.)

Prerequisite: BIO 185, or BIO 281 & BIO 282 with a minimum grade of "C," or instructor permission.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

RSP 114 – Clinical Medicine

IAI: None *1.2*

Clinical Medicine is an overview of diseases of the cardiopulmonary and related systems requiring medical and/or surgical intervention. Each pathological process will be discussed with regard to etiology, pathophysiology, diagnosis, treatment and prognosis. (Offered spring semester.)

Prerequisite: RSP 113
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

RSP 121 – Respiratory Care Practices and Procedures I

IAI: None *1.2*

Respiratory Care Practices and Procedures I provides classroom instruction and laboratory practice for the equipment used to provide general respiratory care. Classroom instruction and laboratory practice is provided for many general respiratory care procedures. (Offered fall semester.)

Prerequisite: Admission to the Respiratory Care program.
Credit: 5 semester hours
Lecture: 4 *Lab: 2*

RSP 122 – Respiratory Care Practices and Procedures II

IAI: None *1.2*

Respiratory Care Practices and Procedures II provides a continuation and completion of classroom instruction and laboratory practice for general respiratory care procedures. Following this, there is instruction and discussion on the integrated processes of patient assessment and care planning for general respiratory care procedures. (Offered spring semester.)

Prerequisite: RSP 121 with minimum grade of "C."
Credit: 5 semester hours
Lecture: 4 *Lab: 2*

RSP 123 – Respiratory Pharmacology

IAI: None *1.2*

Respiratory Pharmacology is an introduction to the theory and use of medications, with emphasis on those used in cardiorespiratory care. Content will include dosages, actions, indications, contraindications and hazards of drugs, and drug dose calculations. Normal physiology and pathophysiology are reviewed to clarify the role of medications in the treatment of disease processes. (Offered spring semester.)

Prerequisite: Admission to the Respiratory Care program.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

RSP 131 – Clinical Practice I
IAI: None *1.2*
Clinical Practice I is an introduction to the respiratory care profession and general healthcare-related concepts. Instruction is provided for clinical practices that can affect the safety of both patients and practitioners. The expectations for student performance in the clinical setting are discussed. Students will be involved in hospital orientation and introductory patient care activities toward the end of the course. (Offered fall semester.)
Prerequisite: Admission to the Respiratory Care program.
Credit: 2 semester hours
Lecture: 2 *Lab: 4*

RSP 132 – Clinical Practice II
IAI: None *1.2*
Clinical Practice II provides supervised observation, practice, and evaluation of patient assessment and general respiratory care procedures in the clinical setting. (Offered spring semester.)
Prerequisite: RSP 131 with minimum grade of "C."
Credit: 3 semester hours
Lecture: 0 *Lab: 16*

RSP 221 – Respiratory Care Practices and Procedures III
IAI: None *1.2*
Respiratory Care Practices and Procedures III provides classroom instruction and laboratory practice for continuous mechanical ventilation and an introduction to critical care procedures. (Offered summer semester.)
Prerequisite: RSP 122 with a minimum grade of "C."
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

RSP 222 – Cardiopulmonary Testing and Rehabilitation
IAI: None *1.2*
Cardiopulmonary Testing and Rehabilitation provides the student with an in-depth study of pulmonary function testing in the lecture and laboratory setting including types of tests, test results analysis, diagnostic value of the analysis, pulmonary function testing equipment, and the standards for equipment and test performance. Additional areas of study include pulmonary and cardiac stress testing, pulmonary rehabilitation, performing an electrocardiogram, cardiac arrhythmia recognition, sampling arterial blood, blood gas analyzer function, and the quality assurance standards for blood gas analyzers. Field trips into local hospitals may be included. (Offered summer semester.)
Prerequisite: Enrollment in the Respiratory Care program.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

RSP 223 – Respiratory Care Practices and Procedures IV
IAI: None *1.2*
Respiratory Care Practices and Procedures IV provides an in-depth study in the lecture and laboratory setting of mechanical ventilatory support and its use in respiratory care as well as the critical application of advanced principles involved in patient care. Emphasis is on the physiological principles involved in patient care as well as the clinical application of these principles to adult patients. The use of the pulmonary artery catheter, end-tidal carbon dioxide measurement and other monitoring procedures will be studied as they are applied to advanced cardiopulmonary monitoring. Airway management options will be discussed and adult and infant intubation will be practiced on mannequins. Fundamental principles of respiratory home care will be presented. (Offered fall semester.)
Prerequisite: RSP 221 with minimum grade of "C."
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

RSP 224 – Neonatal and Pediatric Respiratory Care
IAI: None *1.2*
Neonatal and Pediatric Respiratory Care provides the student with information related to fetal development, neonatal assessment before birth, during the delivery process, and after delivery; and cardiopulmonary care of the sick newborn including, but not limited to, airway management, oxygen therapy, and mechanical ventilation. Additional discussion will include assessment and cardiopulmonary care of the sick pediatric patient. Guest lecturers may be brought in to present topics related to the high risk nursery. (Offered fall semester.)
Prerequisite: Enrollment in the Respiratory Care program or instructor permission.
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

RSP 225 – Respiratory Care Seminar
IAI: None *1.2*
Respiratory Care Seminar has a format that allows for a variety of pertinent, current respiratory care and healthcare topics to be presented as needed. Set topics will include preparation for the National Board for Respiratory Care's Entry Level Exam, Written Registry Exam, and Clinical Simulation Exam; critical thinking, clinical practice guidelines, and therapist-driven protocols. Guest speakers may be brought in from the area healthcare providers to share their expertise. (Offered spring semester.)
Prerequisite: Enrollment in the Respiratory Care program or instructor permission.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

RSP 231 – Clinical Practice III
IAI: None *1.2*
Clinical Practice III provides supervised observation, practice, and evaluation of more advanced respiratory care skills. These skills include administration of respiratory care procedures and mechanical ventilation to critically ill patients and the use of advanced patient assessment procedures. (Offered fall semester.)
Prerequisite: RSP 222 with minimum grade of "C."
Credit: 3 semester hours
Lecture: 0 *Lab: 16*

RSP 232 – Clinical Practice IV
IAI: None *1.2*
Clinical Practice IV provides a continuation of supervised observation, practice, and evaluation of the skills learned in RSP 231. Increasing emphasis is placed on the assessment and management of critically ill patients. Additionally, there are other scheduled experiences in respiratory care. (Offered spring semester.)
Prerequisite: RSP 231 with minimum grade of "C."
Credit: 3 semester hours
Lecture: 0 *Lab: 16*

RSP 250 – Special Topics in Respiratory Care
IAI: None *1.2*
Special Topics in Respiratory Care is designed to satisfy specific needs or interests of Respiratory Care majors and/or the healthcare community. Exact course requirements and hours of credit are based on the nature of the topics under study. A maximum of four credit hours can be earned.
Prerequisite: Previous course work in Respiratory Care and/or instructor permission.
Credit: 1-4 semester hours
Lecture: 1-4 *Lab: 0*

Sociology SOC

SOC 190 – Introduction to Sociology
IAI: S7 900 *1.1*
Introduction to Sociology includes a scientific study of the major concepts and principles of social behavior. Using core sociological theories, this course focuses on the patterns of social group interactions, institutions and structures and the relationship between these elements of society.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SOC 290 – Social Problems
IAI: S7 901 *1.1*
Social Problems is a course designed to introduce students to a variety of current social problems and develop the sociological perspective through analysis of these issues. More specifically, the course will focus on how sociologists define, study, and interpret social problems. Students will utilize theories, concepts, and current research to examine the causes, prevalence, and consequences of specific problems. In addition, this course will employ strategies to empower students to identify, understand, and act toward intervention and creative solutions to social problems.
Prerequisite: SOC 190 or consent of the instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SOC 291 – Criminology
IAI: CRJ 912 *1.1*
Criminology is a study of crime as a form of deviant behavior. It includes a survey of schools and theories of criminology with special emphasis on crime in relation to social structure and social institutions. Special attention is given to career criminals, "white collar crime," and the treatment of criminals in the justice system.
Prerequisite: SOC 190 or consent of the instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SOC 292 – Sociology of Deviance
IAI: None *1.1*
Sociology of Deviance examines the sociological study of the origins, causes and control of deviance and deviant behavior which is seen as a labeling process. Emphasis is placed on individual and group deviance, resulting from societal norms and values. Primary areas to be covered include drug abuse, sexual deviance, marginal deviance, and career deviance.
Prerequisite: SOC 190 or consent of the instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SOC 293 – The Aging Process
IAI: None *1.1*
The Aging Process is a basic introduction to the field of gerontology. The process of aging will be viewed from several theoretical perspectives. Special emphasis will be placed on the role of the aged in Western society.
Prerequisite: SOC 190 or consent of the instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SOC 294 – Urban Sociology
IAI: None *1.1*
Urban Sociology examines the historical and contemporary development of cities and urban life. Using empirical and theoretical research, the course analyzes how people experience cities, how institutions and structures operate in cities, and urban social problems. Course topics are applied to urban environments locally, nationally, and globally.
Prerequisite: SOC 190 or consent of the instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SOC 295 – Racial and Ethnic Relations
IAI: S7 903D *1.1*
Racial and Ethnic Relations examines the social construction of racial and ethnic group identities, institutions, and stratification systems from a national and global perspective. Using empirical and theoretical research, the course analyzes the impact of socio-historical processes on contemporary patterns of racial-ethnic prejudice and discrimination.
Prerequisite: SOC 190 or consent of the instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SOC 298 – Sociology of Sex and Gender
IAI: S7 904D *1.1*
Sociology of Sex and Gender will focus on the multifaceted similarities and diversities between sex and gender within various environments and social situations. The course will focus on the social construction of gender and its impact on men and women in the workplace, family environment, personal, and intimate relationships.
Prerequisite: SOC 190 or equivalent.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SOC 299 – Marriage and the Family
IAI: S7 902 *1.1*
Marriage and the Family is a study of the institutions of marriage and the family. The course will be presented from an interdisciplinary perspective with major emphasis on the American family and marriage.
Prerequisite: SOC 190 or consent of the instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

Spanish

– See Modern Languages

Speech SPH

SPH 131 – Fundamentals of Communication
IAI: C2 900 *1.1*
Fundamentals of Communication is a beginning course in the theory and practice of speech communication. Attention is given to listening, interpersonal and group communication, and public speaking. Students will develop more confidence and skill in oral communication.
Prerequisite: ENG 101-Ready, grade of "C" or higher in ENG 099.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SPH 132 – Public Speaking
IAI: None *1.1*
Public Speaking prepares students for effective public address through development of important rhetorical skills, including audience analysis, research, content development, attention devices, and delivery. Students will prepare oral presentations which apply advanced rhetorical theory.
Prerequisite: ENG 101-Ready, grade of "C" or higher in ENG 099.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SPH 142 – Gender Communication
IAI: None *1.1*
Gender Communication is an introductory examination of the communication differences between men and women. Students will become more aware of how:
(1) gender roles influence communication and (2) how gender expectancies are constructed through communication.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SPH 201 – Interpersonal Communication
IAI: None *1.1*
Interpersonal Communication examines the ways in which people relate with each other. Relationships in family, work and social contexts will be examined in order to improve communication skills for satisfying encounters.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

SPH 202 –
Intercultural Communication
IAI: None *1.1*
Intercultural Communication is a study of communication among people who have different cultural backgrounds. The course will focus on the impact of verbal and nonverbal communications, belief systems, use of power, masculine and feminine roles, and language on intercultural communication. Students will develop communication skills to overcome intercultural barriers.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SPH 204 –
Nonverbal Communication
IAI: None *1.1*
This course is the study of how humans communicate through the use of body movements, touching, vocal variations, and the use of space, time and objects or artifacts. The course will discuss the effects of gender and culture on nonverbal communication.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SPH 211 –
Group Leadership
IAI: None *1.1*
Group Leadership is a study of leadership techniques and their interrelationship with group dynamics. Students will participate in varied group analyses and problem-solving discussions.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SPH 299 –
Communication Education Internship
IAI: None *1.1*
Communication Education Internship provides exceptional communications students the opportunity to team-teach a speech course with a full-time faculty member. The student attends all class sessions, prepares lectures, manages class exercises, and offers oral and written reviews of oral performances. The goal of this internship is preparation for a career in communication education. Students may earn a maximum of four credits (i.e., over two semesters). This may be repeated one time.
Prerequisite: Instructor consent
Credit: 2 semester hours
Lecture: 0 *Lab: 2*

Statistics

– See Mathematics

Student Development STU

STU 100 –
Planning for Success
IAI: None *1.1*

This course is required for all new students intending to pursue an Associate of Arts, Associate in Science, or Associate in Engineering Science degree.

Planning for Success is designed to introduce and connect the student to the RVC community and to assist the student in the active development of academic and personal goals. Students will work with instructors to learn strategies for their transition into college. Students are expected to engage in building the skills needed for college success. Course discussions will include academic preparation, self-awareness, and RVC community resources. Course restricted to students with 30 or fewer college level credits, or with consent of the Dean of Advising and Retention.
Prerequisite: None
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

STU 101 –
Career Planning
IAI: None *1.1*
Career Planning is designed to help students improve their life/career planning. Participants will acquire skills for discovering who they are, what they want, and how they can reach their goals. At the conclusion of the program, participants should be able to take more control of their lives. Credit earned is elective credit and will apply to graduation and transfer.
Prerequisite: None
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

STU 299 –
Service Learning
IAI: None *1.1*
This course teaches the student to apply academic theories about social change through voluntary participation in community service.
Prerequisite: Instructor consent
Credit: 1-3 semester hours
Lecture: 0 *Lab: 1-3*

Surgical Technology SRG

SRG 101 –
Surgical Technology I – Central Service Principles and Practice
IAI: None *1.2*
Surgical Technology I – Central Service Principles and Practice is an introduction to the role of the Surgical Technologist including the role and function of the central service department/technician. Emphasis is placed on principles and practice related to asepsis, sterilization, disinfection of commonly used equipment and supplies, processing and care of instruments, care and maintenance of equipment, distribution of supplies and inventory control. Clinical experience in central service is required in conjunction with eight hours weekly of on-campus laboratory instruction. Clinical site instruction off campus is six hours weekly for this 8-week course. Prerequisite: Admission to the Surgical Technology program.
Prerequisite: BIO 185, HLT 110, BIO 274, ENG 101, and Basic Computer course or computer proficiency.
Credit: 4 semester hours
Lecture: 2 *Lab: 4*

SRG 102 –
Surgical Technology II – Principles and Practice
IAI: None *1.2*
Surgical Technology II – Principles and Practice introduces the student to the healthcare environment and the role of the surgical technologist. Basic patient care concepts and principles for developing competencies required to assist in surgery are examined. Emphasis is placed on basic surgical procedures, which includes the preoperative, intraoperative and postoperative phases commonly performed in the operating room setting. Selected clinical experiences provided concurrently for eight weeks, during this 16-week course.
Prerequisite: SRG 101
Credit: 6 semester hours
Lecture: 2 *Lab: 8*

SRG 103 –
Surgical Technology III – Principles and Practice Specialty
IAI: None *1.2*
Surgical Technology III – Principles and Practice Specialty will allow the advanced student in surgical technology to apply their knowledge of the diagnosis, operative pathology, objectives, role of the technologist, use of selected equipment, supplies, drugs, sequence and complications of various selected surgeries. Emphasis is placed on the surgical specialties of general and rectal; obstetric and gynecologic; genitourinary; ophthalmic; ear, nose, and throat; oral and maxillofacial; head and neck; plastic; and peripheral vascular. Selected clinical experiences are provided concurrently, during this 8-week course.
Prerequisite: SRG 102
Corequisite: SRG 104, SRG 106
Credit: 5 semester hours
Lecture: 2 *Lab: 6*

SRG 104 –
Surgical Technology IV – Principles and Practice Specialty

IAI: None *1.2*

Surgical Technology IV – Principles and Practice Specialty is a continuation of SRG 103. This course will allow the advanced student in surgical technology to apply their knowledge of the diagnosis, operative pathology, objectives, role of the technologist, use of selected equipment, supplies, drugs, sequence, and complications of various selected surgeries. Emphasis is placed on the surgical specialties of general pediatrics, orthopedic, neurosurgery, cardiothoracic, trauma, and procurement/transplant. Selected clinical experiences are provided concurrently, during this 8-week course.

Prerequisite: SRG 102
Corequisite: SRG 103, 106
Credit: 5 semester hours
Lecture: 2 *Lab: 6*

SRG 105 –
Surgical Technology V – Internship

IAI: None *1.2*

Surgical Technology V - Internship provides 24 to 40 hours a week for 300 hours of experience working in the surgical technologist's role in selected clinical facilities during Summer Sessions I and II.

Prerequisite: SRG 103, 104, 106
Credit: 4 semester hours
Lecture: 0 *Lab: 20*

SRG 106 –
Surgical Technology Seminar

IAI: None *1.2*

Surgical Technology Seminar reviews the history of surgical technology as it influences current practice. Emphasis is on the changing role and responsibilities of the surgical technologist and regarding relationships and opportunities within the occupation. Current surgical technology issues are discussed with topics including surgical technology education, ethics, economic issues, and changing aspects of the healthcare-environment and new health care laws, during this 16-week course.

Prerequisite: SRG 102
Corequisite: SRG 103, 104
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

Theatre THE

THE 110 –
Theatre Practicum I

IAI: None *1.1*

Theatre Practicum I is designed to give the student practical experience in costuming, stage management, lighting, scene construction, prop construction, and box office management that is not available in a standard classroom setting. Students will increase their efficiency, enjoyment and understanding of the various methods of producing theatrical productions using actual production requirements as a learning tool.

Prerequisite: None
Credit: 1 semester hour
Lecture: 1 *Lab: 1*

THE 111 –
Theatre Practicum II

IAI: None *1.1*

Theatre Practicum II is designed to continue to give the student practical experience in costuming, stage management, lighting, scene construction, prop construction, and box office management that is not available in a standard classroom setting. Students will increase their efficiency, enjoyment and understanding of the various methods of producing theatrical productions using actual production requirements as a learning tool.

Prerequisite: THE 110
Credit: 1 semester hour
Lecture: 1 *Lab: 1*

THE 133 –
Introduction to Theatre

IAI: F1 907 *1.1*

Introduction to Theatre is designed to acquaint students with the theoretical principles of acting, directing, scene design, set construction, costuming, make-up, lighting for the stage, and sound. A survey of theater history and dramatic literature provides a basis for informed critical viewing and for future studies in theater.

Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

THE 134 –
Stagecraft and Theatre Lighting

IAI: TA 911 *1.1*

Stagecraft and Theatre Lighting is an introductory course in the principles, procedures, and practices of technical theatrical production using practical experiences in conjunction with departmental presentations. Basic methods of safe scenery construction, scene painting, lighting equipment, and property building are explored. The class emphasis is on safety in a scenic shop.

Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

THE 135 –
Acting I

IAI: TA 914 *1.1*

Acting I is an introduction to the basic elements of acting as an art form. The course centers on exercises to develop the expressiveness of the body and voice combined with a study of the mental and emotional processes of the actor. The class emphasis is on basic performance skill development.

Prerequisite: None
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

THE 136 –
Directing

IAI: None *1.1*

Directing is an introductory course in the art of directing for the theatre using a problem-solving approach in surveying the director's responsibilities. Particular attention is focused on the organizational, managerial, and planning functions of the director. The class emphasis is on practical directing problem-solving.

Prerequisite: None
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

THE 137 –
Costuming

IAI: None *1.1*

Costuming is an introductory course in the design and construction of theatrical costumes. The course is designed to give students a basic understanding of historical costuming, basic safety procedures, techniques of costume and accessory construction, machine and tool use. The course also includes an introduction to sewing – both hand and machine, cutting, draping and pattern drafting and costume shop organization. Practical experience is gained through the construction of costumes for productions.

Prerequisite: None
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

THE 210 –
Theatre Practicum III

IAI: None *1.1*

Theatre Practicum III is designed to continue to give the student practical experience in costuming, stage management, lighting, scene construction, prop construction, and box office management that is not available in a standard classroom setting. Students will increase their efficiency, enjoyment and understanding of the various methods of producing theatrical productions using actual production requirements as a learning tool.

Prerequisite: THE 111
Credit: 1 semester hour
Lecture: 1 *Lab: 1*

COURSE DESCRIPTIONS

THE 211 – Theatre Practicum IV
IAI: None *1.1*
Theatre Practicum IV is designed to continue to give the student practical experience in costuming, stage management, lighting, scene construction, prop construction, and box office management that is not available in a standard classroom setting. Students will increase their efficiency, enjoyment and understanding of the various methods of producing theatrical productions using actual production requirements as a learning tool. Upon completion of the four Practicum credits, the student will have a portfolio review in preparation for transfer to a baccalaureate program.
Prerequisite: THE 210
Credit: 1 semester hour
Lecture: 1 *Lab: 1*

THE 220 – Summer Theatre Workshop
IAI: None *1.1*
Summer Theatre Workshop is an introduction to the unique challenges of outdoor theatre. Students will receive an overview of the production process through a series of lectures and will then select one or more major areas of emphasis. Students will be exposed to production theory through class presentations and readings. Practical experience will be gained through production assignments.
Prerequisite: None
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

THE 234 – Design for the Theatre
IAI: TA 911 *1.1*
Design for the Theatre is an introductory design class concentrating on scenic, lighting and property design. The students will take projects from initial design conceptualization through working drawings. Basic drafting—both manual and CAD, mechanical perspective rendering, model construction and lighting theory will be explored in relationship to various dramatic scripts. The class is designed to give the student an introduction to all aspects of theatrical design.
Prerequisite: None
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

THE 235 – Acting II
IAI: None *1.1*
Acting II builds upon the skills developed in the basic acting course. It focuses on the development of characterization skills, communication with other actors on stage, and the ability to handle various styles of dramatic literature. The class emphasizes scene work, character-building and character definition with performance outcomes.
Prerequisite: THE 135
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

THE 236 – Directing II
IAI: None *1.1*
Directing II builds on the skills developed in the basic directing course. It focuses on the development of stage movement through picturization, script analysis, period research, conceptual communication and the actual production of a one-act play. The class emphasis is on directorial communication and conceptualization with a performance as the final outcome.
Prerequisite: THE 136
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

THE 237 – Stage Makeup
IAI: None *1.1*
Stage Makeup is an introductory course in the basics of designing, applying, and creating theatrical makeup. It will introduce the student to the principles of light, shade and color as they relate to makeup. Students will study character makeup, fantasy makeup, various modern mediums, prosthetics, mask making, facial hair and practical applications. The course emphasis is on both design and application.
Prerequisite: None
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

Web Programming & Design — WEB

WEB 101 – Programming Related to the Internet
IAI: None *1.2*
Programming Related to the Internet is designed for students and professionals interested in learning how to design and develop Web pages and Websites. The course covers Web design, copyright, and marketing topics, as well as HTML programming and HTML code generators. Additionally students will learn about Web graphics and scripting languages used to create exciting Web pages.
Prerequisite: CIS 102 or equivalent computer experience.
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

WEB 102 – Advanced Programming Related to the Internet
IAI: None *1.2*
This course is designed for students and professionals interested in extending their knowledge of Web programming tools. The emphasis of this course is to introduce Web application development. This course includes cascading style sheets, HTML, and the latest web technologies. This course also introduces both client and server-side scripting.
Prerequisite: WEB 101 or equivalent Web development skills.
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

WEB 111 – Introduction to Multimedia
IAI: None *1.2*
Introduction to Multimedia is a course that will acquaint the student with multimedia design principles as well as multimedia creation and manipulation. This class introduces multimedia hardware and software used most often by web developers creating web pages which include multimedia elements.
Prerequisite: WEB 101
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

WEB 112 – Advanced Multimedia
IAI: None *1.2*
Advanced Multimedia Authoring is a continuation of WEB 111 - Introduction to Multimedia. WEB 112 - Advanced Multimedia will enhance the skills of the experienced multimedia user. Advanced scripting techniques will be covered to provide more user interaction. The Internet will be used to access resources. A multimedia project utilizing advanced scripting will be required.
Prerequisite: WEB 101, WEB 111
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

WEB 225 – Digital Photography
IAI: None *1.2*
Digital Photography introduces basic digital imaging applications. Emphasis is placed on color theory, calibration, scanning, enhancement, importing and exporting graphic images. Methods of conversion to digital format will be explored. Appropriate computer software related to the subject will be utilized.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

WEB 230 – Web Rapid Application Development
IAI: None *1.2*
Web Rapid Application Development uses a currently popular RAD tool such as Macromedia's ColdFusion scripting language to teach the development of dynamic database driven web applications. Students will be instructed in the development of a structured process for building web applications for doing business on the web. The students will be required to build a mock e-commerce website from the ground up. They must develop the process flow of their mock business, construct the product database, and develop pages for displaying the product information including building a shopping cart for the "purchase" of items.
Prerequisite: WEB 101, WEB 102, and completion or current enrollment in CIS 254 or CIS 130.
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

WEB 231 – Web Design and Production
IAI: None *1.2*
Web Design and Production is designed to educate students in the construction of websites that incorporate print design styles and principles for developing a targeted Internet marketing solution. Students will be taken through a complete web development project, from initial concept to completed site. They will be expected to complete a project of their own choosing, real or imaginary, that encompasses all aspects of the production cycle of a web project; initial concept, quoting, project planning, process flow, page design, marketing considerations, usability, and quality control.
Prerequisite: Successful completion of WEB 101 and WEB 102.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

WEB 233 – Web Programming Using Client-Side Scripting
IAI: None *1.2*
Web Programming Using Client-Side Scripting is designed to educate students in the construction of dynamic websites. Students will be expected to build a website that includes complex programming logic and control structures as well as a variety of visual effects.
Prerequisite: Must have completed WEB 101 and WEB 102 or have equivalent web development experience, as well as CIS 180, or equivalent introductory programming experience.
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

WEB 234 – PHP Programming
IAI: None *1.2*
PHP Programming will cover the basics of PHP and MySQL database design, advanced database connectivity techniques, and focus on building personal, business, and e-commerce applications. Students will learn basic and advanced object-oriented programming techniques, using libraries and frameworks, and integrating PHP and AJAX applications. These are the techniques necessary to prepare students to build server-side enterprise web applications.
Prerequisite: WEB 101
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

WEB 235 – Web Programming Using Server-Side Scripting
IAI: None *1.2*
Web Programming Using Server-Side Scripting is designed to educate students in the construction of web pages which require processing on the server. Students will be expected to build a website that includes complex programming logic and control structures as well as a variety of data structures.
Prerequisite: Must have completed WEB 101 and WEB 102, or have equivalent web development experience, as well as CIS 180, or equivalent introductory programming experience.
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

WEB 290 – Special Topics in Web Information Technology
IAI: None *1.2*
Special Topics in Web Information Technology will cover leading edge topics in the web information technology arena. These special topics might include new server technologies or new web development technologies. This course may often be taught by experts from the business world who work with the technology which the course covers. Exact course requirements are based on the nature of the topics under study. The course may be repeated three times.
Prerequisite: Will vary depending on course topic.
Credit: 1-6 semester hours
Lecture: 1-6 *Lab: 0*

WEB 291 – Internship/Field Experience
IAI: None *1.2*
Internship/Field Experience requires students to work part-time in the field of web Development in a local cooperating business firm or non-for-profit organization. This experience will be supervised by a faculty advisor of the web program. Consent of the advisor or division director is required.
Prerequisite: WEB 101 and WEB 102 required. Completion of WEB 230, WEB 233, and WEB 235 recommended.
Credit: 1-6 semester hours
Lecture: 0 *Lab: 5-30*

Welding WLD

WLD 100 – Introduction to Welding
IAI: None *1.2*
Introduction to Welding is designed for beginning welders. It covers the basic theory and provides hands-on lab practice of Shielded Metal Arc Welding (Stick), Gas Metal Arc Welding (MIG), Gas Tungsten Arc Welding (Tig), Oxyfuel (Gas) welding and cutting processes. Special emphasis is placed on welding shop and process safety. This course prepares the student to enter the welding skills courses.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

WLD 150 – Blueprint Reading for Welders
IAI: None *1.2*
Blueprint Reading for Welders course is designed for welders or those in the welding field, such as welding inspection, metal fabrication, set-up, assemblers and testing.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

WLD 152 – Arithmetic for Welders
IAI: None *1.2*
Arithmetic for Welders teaches basic mathematic skills and provides practical exercises useful in the welding field. The topics are presented in a step-by-step approach with examples that broaden understanding of whole numbers, common fractions, decimal fractions, measurement, volume, weight, and bending metal, and percentage and the metric system.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

WLD 153 – Arc Welding: Flat
IAI: None *1.2*
Arc Welding: Flat covers electric welding on plate in the flat position. Safety rules and equipment usage are emphasized. An introduction to oxygen acetylene cutting is covered.
Prerequisite: WLD 100 or consent of instructor.
Credit: 3 semester hours
Lecture: 1 Lab: 4

WLD 154 – Arc Welding: Vertical
IAI: None *1.2*
Arc Welding: Vertical covers electric welding on plate in the vertical position. Safety rules and equipment usage are emphasized. An introduction to oxygen acetylene cutting is covered.
Prerequisite: Credit in or concurrent enrollment in WLD 155, or consent of instructor.
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

COURSE DESCRIPTIONS

WLD 155 –
Arc Welding: Horizontal
IAI: None *1.2*
Arc Welding: Horizontal covers electric welding on plate in the horizontal position. Safety rules and equipment usage will be emphasized. Oxygen acetylene burning will also be covered.
Prerequisite: WLD 153, or consent of instructor.
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

WLD 156 –
Arc Welding: Overhead
IAI: None *1.2*
Arc Welding: Overhead covers electric welding on plate in the overhead position. Safety rules and equipment usage will be emphasized. Oxygen acetylene cutting will also be covered.
Prerequisite: Credit in or concurrent enrollment in WLD 154, or consent of instructor
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

WLD 157 –
M.I.G. Welding
IAI: None *1.2*
M.I.G. Welding covers M.I.G. (wire) welding in all positions on plate. Safety rules and equipment will be emphasized.
Prerequisite: WLD 100 or consent of instructor.
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

WLD 158 –
T.I.G. Welding
IAI: None *1.2*
T.I.G. Welding covers T.I.G. welding in all positions on plate. Safety rules and equipment will be emphasized.
Prerequisite: WLD 100 or consent of instructor.
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

WLD 159 –
Arc Welding: Bellhole/Pipe
IAI: None *1.2*
Arc Welding: Bellhole/Pipe covers pipe welding in the Bellhole (5G) position. Safety rules and equipment are emphasized. Pipe cutting with oxygen and acetylene will be included.
Prerequisite: WLD 156 or consent of instructor.
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

WLD 161 –
Arc Welding: Arkansas/Pipe
IAI: None *1.2*
Arc Welding: Arkansas/Pipe covers pipe welding in the Arkansas Bellhole (6G) position. Safety rules and equipment are emphasized. Pipe cutting with oxygen and acetylene will be included.
Prerequisite: WLD 156 or consent of instructor.
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

WLD 175 –
Certification Qualification Preparation
IAI: None *1.2*
Certification Qualification Preparation is designed to prepare an experienced welder for the certification test in A.W.S. D1.1 on plate, or pipe on mild steel only. A.W.S. standards will be followed. The requirements for maintenance of certification will be discussed.
Prerequisite: Consent of the welding coordinator.
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

WLD 180 –
Independent Study in Welding
IAI: None *1.2*
Independent Study in Welding allows students to develop specific course goals and objectives based on their needs and previous welding experience. Students will work with the welding instructor to determine course goals.
This course may be repeated three times.
Prerequisite: Industrial experience or completion of welding courses in the processes area of study, or consent of instructor.
Credit: 1-5 semester hours
Lecture: 1-2 *Lab: 1-6*

WLD 181 –
Special Topics Welding
IAI: None *1.2*
Special Topics Welding is designed to satisfy topics or special interest in a particular area of welding. Topics will vary from semester to semester. This course may be repeated three times.
Prerequisite: Consent of the instructor is required.
Credit: 1-3 semester hours
Lecture: 1-3 *Lab: 1-4*

WLD 182 –
Internship In Welding Technology
IAI: None *1.2*
Internship in Welding Technology enables students to work part-time as interns in a local manufacturing facility or governmental agency involved in welding/fabrication. Work will be done under the supervision of a college administrator/faculty member. It is the student's responsibility to secure a part-time or full-time job. Prior approval must be obtained from the welding administrator or faculty member. The number of work hours is variable.
Prerequisite: At least 12 credits in Welding Technology Certification program, previously or concurrently. Students may repeat this course up to a maximum of six credit hours.
Credit: 1-6 semester hours
Lecture: 0 *Lab: 5-30*

CAREER & TECHNICAL EDUCATION/COMMUNITY OUTREACH

Career & Technical Education/ Community Outreach

Career and Technical Education/Community Outreach at Rock Valley College offers non-credit programs and classes, whether obtaining a degree or seeking culture and recreation, Community and Continuing Education programs are intended for persons of all ages, whether obtaining training or professional development or seeking cultural enrichment or recreation.

NON-CREDIT CLASSES & GRANTS

Business Outreach

Business & Professional Institute (BPI) ..... (815) 921-2066

Through the Business & Professional Institute, Rock Valley College offers training, consulting, and specialized resources that are designed to meet the needs of business and industry. Many of the workshops and conferences are held in the Woodward Technology Center (WTC), on the Main Campus, a state-of-the-art facility designed to provide clients with comfort and the latest technology.

The Business & Professional Institute also offers on-site training sessions, customized training and programs in the following areas:

- Leadership and Supervisor Training
- Computer Training
- Customer Service & Sales Training
- Quality and Safety Training
- Fanuc Robotics Training
- Blueprint Reading
- Geometric Dimensioning & Tolerancing (GD&T) Training
- Truck Driver Training

For more information visit: RockValleyCollege.edu/ BPI.

Put yourself in the driver's seat today!
For more information about the Truck Driver Training Program, contact Program Coordinator, Mark Sandoval at (815) 921-2076 or M.Sandoval@RockValleyCollege.edu or visit: RockValleyCollege.edu/TDT.

TechWorks ..... (815) 921-2192

TechWorks provides a 170 (SB 180)-hour Fast-Track skills training that leads to: two (2) NIMS credentials. TechWorks has credentialed more than 400 students. Our training partners include Rock Valley College, Sandvik Coromant, NIMS (National Institute for Metalworking Skills), DMG/Mori Seiki, Doosan, and YCM (Vertical Machining Center). We work to give each student the core skills in advanced manufacturing.

TechWorks is an employer-driven training organization that develops and delivers a customized curriculum to prepare you for a career in advanced manufacturing in just six (6) to eight (8) weeks. Classes are seven (7) hours each day, therefore it is best suited for the unemployed.

Whether you are new to the manufacturing field or continued education is your goal, our small classroom size and hands-on training allows us to graduate highly employable individuals into our regional workforce. You will learn the skills necessary to enter the manufacturing environment at an entry level position with a solid foundation of shop math, blueprint interpretation, metrology, and CNC setup/operation skills.

For additional information, please call (815) 921-2192 or visit:
RockValleyCollege.edu/ TechWorks
(located at Samuelson Road Center, 4151 Samuelson Road).

Community Education Outreach

Center for Learning in Retirement (CLR), Community and Continuing Education (CCE), and the Traffic Safety Program are managed within Community Education Outreach.

Center for Learning in Retirement (CLR) ..... (815) 921-3931

The Center for Learning in Retirement is a membership organization, open to retired and semi-retired adults (over the age of 50), who enjoy intellectual stimulation and the opportunity to meet new friends. There are short-term courses, often led by members, covering a wide range of topics, including art, computers, history, sciences, special interests, and more. There are no tests, no grades, and no homework!

Most classes are held at the Bell School Road Center, on the corner of Bell School and Spring Brook Roads. Some classes are held on the Main Campus of Rock Valley College, like the Golden Eagles Fitness Program and other various sites off campus. Looking for fun and adventure? There are day trips each month to museums, arboretums, art exhibits, and the theater, scheduled social events, and extended trips.

For more information concerning this exciting lifelong learning opportunity, call (815) 921-3931 or visit: RockValleyCollege.edu/CLR.

Traffic Safety ..... (815) 921-3940

The Rock Valley College Traffic Safety Program provides driver improvement training for a variety of individual, employer-supported, and court-supervised participants.

Supervision Program: The College joins regional courts, local governments, and law enforcement agencies to provide an educational option for minor traffic violations. Motorists, who choose class instead of court can keep the violation off their public driving record, avoid higher insurance premiums, and learn effective defensive driving techniques. Classes are offered throughout the seven-county service region.

Employers: Workplace leaders committed to employee and work place safety choose tailored courses. Participation in driver improvement programs can result in increased productivity, fewer accidents and lower insurance premiums. Classes are designed to coordinate with workplace schedules and locations.

Personal Interest: Individuals attend the program for personal interest and self-development.

For more information visit: RockValleyCollege.edu/ TrafficSafety (located at Samuelson Road Center, 4151 Samuelson Road).

Community & Continuing Education (CCE) ..... (815) 921-3900

CCE strives to offer a large and varied selection of educational opportunities. Whether you are seeking personal enrichment or development, we have programs that will fit your busy lifestyle.

Courses are offered at the RVC Main Campus (3301 N. Mulford Road), Bell School Road Center (3350 N. Bell School Road), online, and many other convenient locations throughout its district.

For more information, please visit: RockValleyCollege.edu/CCE.

COMMUNITY EDUCATION

Encouraging life-long learning at any age!

Community Education offers courses that help you learn a new hobby or skill, enjoy leisure and recreational activities and benefit from personal enrichment experiences. Designed as non-credit courses, there are no entrance exams and no diploma requirements. We offer classes and workshops for all ages.

CONTINUING EDUCATION

Enhance your skills, your career, your life!

Continuing Education offers courses and programs to help you upgrade your skills with non-degree credit, state and national certification and licensing courses in business, healthcare, professional development and technology areas. Designed as short-term, non-degree alternatives, these programs do not require an entrance exam for admission. ***Note:*** Financial Aid does not apply to Continuing Education courses.

WHIZ KIDS

Challenging minds since 1980!

Rock Valley College Whiz Kids provides youth with a variety of academic enrichment opportunities. Through creative teaching strategies, materials, and curricula, Rock Valley College Whiz Kids offers unique, hands-on activities with inventive modes of participation. Students have fun using their imaginations, perfecting their talents, and gaining confidence in academic areas. Parents like this program because it provides a positive and stimulating environment for their children. We like it because we enjoy the kids and love to see learning in action!

COMMUNITY OUTREACH

Theatre & Arts Park ..... (815) 921-2160

The Theatre Department is always looking for more talented community members to join in the fun. Call the Box Office to find out how you can get involved! For more information: RockValleyCollege.edu/ Theatre

Starlight Theatre

In 1967, a group of Rock Valley College students wanted to bring their community to the Main Campus. They hoped to encourage the public to appreciate the beauty of their college's farm setting, the students decided that the best way to accomplish this goal was to perform a musical nestled beside the beautiful farm pond. People from the community came out with their lawn chairs and watched the amazing production. That first show on Thursday, August 3, 1967 at 8:30 pm, *Finian's Rainbow,* was staged on the college lawn and was billed as Rockford's "first all-community musical."

Since the fall of 1967, RVC has brought affordable, outdoor, summer musical theatre to residents of the community.

Times have changed a bit since 1967. Now, audiences no longer bring their own chairs and blankets, but sit in its comfortable 1,140-seat bowl. But it's not just the venue that's grown. Over the past 50 summers, Starlight has become an integral part of the college's Community Outreach initiatives, not to mention a cornerstone of Rockford's summer community.

Today, the performance space is no longer a makeshift stage, but a genuine, state-of-the-art theatre, which a Chicago Tribune's architecture critic called "an engineering wonder." Bengt Sjostrom Theatre (BST) has since been built, remodeled, and remodeled again, most recently in 2002/2003 – designed by leading female architect and MacArthur fellowship recipient Jeanne Gang (from Belvidere, Illinois, who founded Studio Gang Architects – an architecture, interiors, and urbanism practice in Chicago and New York). An important enhancement for an outdoor summer theatre, Gang designed a one-of-a-kind articulated, opening, 70-foot star-shaped roof that can be opened as audiences look up at the night sky, and closed during inclement weather. A constellation-themed ticket and control booth, and versatile stage house, makes BST truly unique, and the construction/design of BST resulted in international recognition, as well as moved Rock Valley College into the forefront of leadership for community arts and entertainment.

Starlight Theatre is one of the nation's largest professionally-produced community theatres. This oldest, continuously operating theatre in Rockford, offers amateur actors, singers, and dancers an opportunity to work under the direction of professional artistic and technical directors. It attracts hundreds of volunteer performers (casts) and crew members (totaling over 24,546 people), where they have each given of themselves for our community's enrichment, and in the process have shared their joy of performing with audiences of nearly 40,000 each season and a total of more than 1,267,000 attendees over the years.

Starlight produces big, 1930s-scale musicals with casts sometimes reaching into the hundreds! More than 140 shows have taken the Starlight stage, including: Sir Andrew Lloyd Weber's *The Phantom of the Opera* and *Joseph and the Amazing Technicolor Dreamcoat*, a new production of Boublil and Schönberg's *Les Misérables*, Disney's *Geppetto & Son* and *Beauty & the Beast*, *Jesus Christ Superstar*, and many more!

Starlight also boasts a distinguished roster of alums including some of the nation's most gifted performers and technicians: Rockford's New American Theatre founder J. R. Sullivan; Broadway star and voice of Walt Disney's *The Little Mermaid*, Jodi Mazorrati Benson; Broadway and London's West End Star, Marin Mazzie; Art Director of *Hollywood's How The Grinch Stole Christmas*, Dan Webster; Chairman of NBC Entertainment, Bob Greenblatt; and Broadway Director and Star, Joe Mantello; among many others.

Studio Theatre

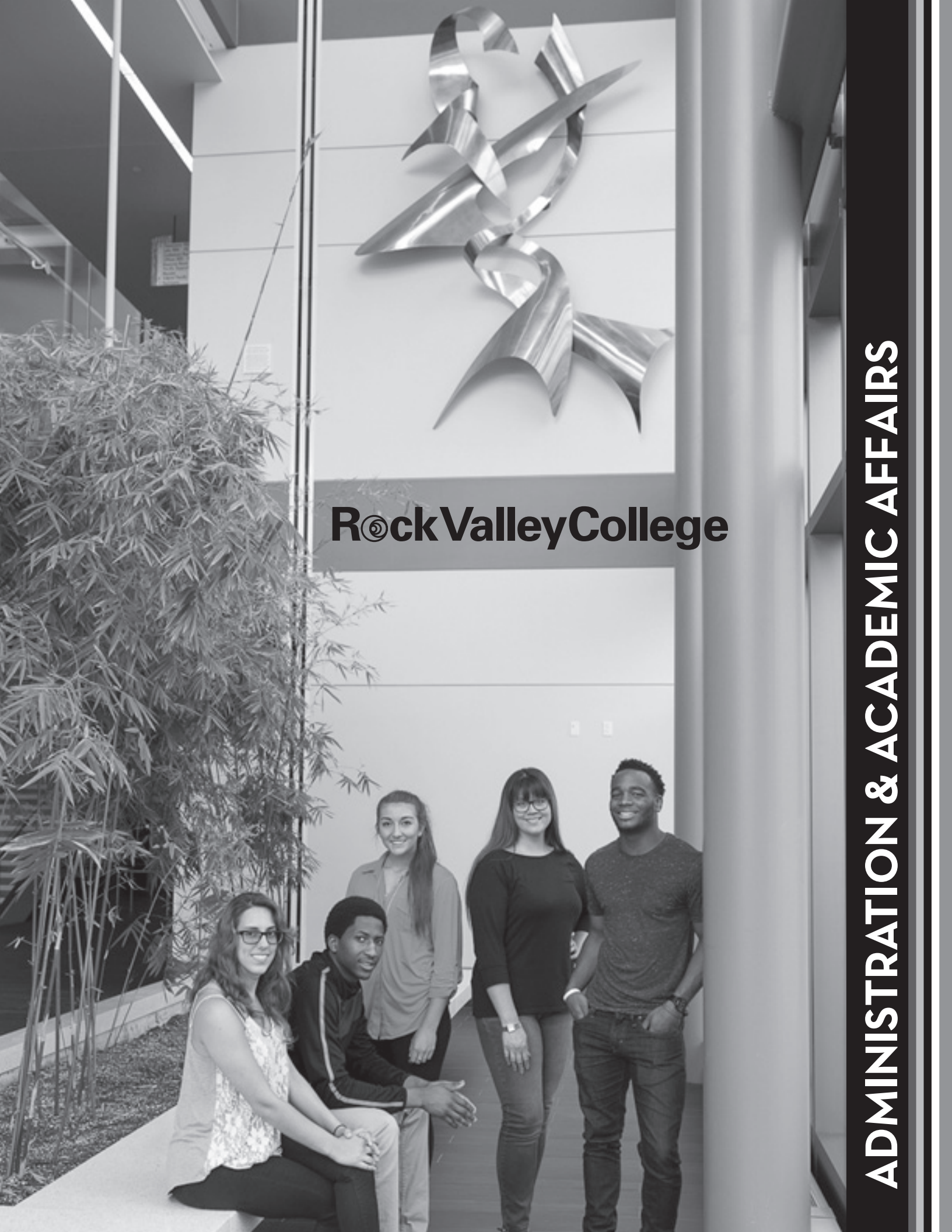
Located in the original barn from the Spring Brook Farm, during the fall and spring semesters, Rock Valley College sponsors a Studio Theatre indoor program, which gives students and area actors the opportunity to perform both musicals and straight plays with guest professionals.

Performances are held in the college's intimate Studio Theatre where the program is committed to producing the entire Shakespearean Canon of plays, to completing all of Steven Sondheim's musical works, as well as staging all of the great plays by Dame Agatha Christie, making every March – Murder Mystery Month in the Studio.

The Studio Theatre also has an original works program, which finds talented playwrights and commissions new plays.

Previous World Premieres include *Lent, the Musical*, *Pearl's Jam*, *Crossing Bridges*, *The Lake*, *Kite's Book: Tales of an 18th Century Hitman* and a regional favorite, *Christmas with the Conroys*.

The Theatre Department is always looking for more talented community members to join in the fun.
Call the Box Office at (815) 921-2160 to find out how you can get involved!



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Disability Support Services

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Mahaney, Natalie
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TRIO Complete

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Sara J. Skaggs
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Liz Stirling
Judith K. Straffin
Linda K. Swinter
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Donald Williams
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Mary Wolf
James B. Yarwood
Larry R. Zachary
Wayne Zumwalt

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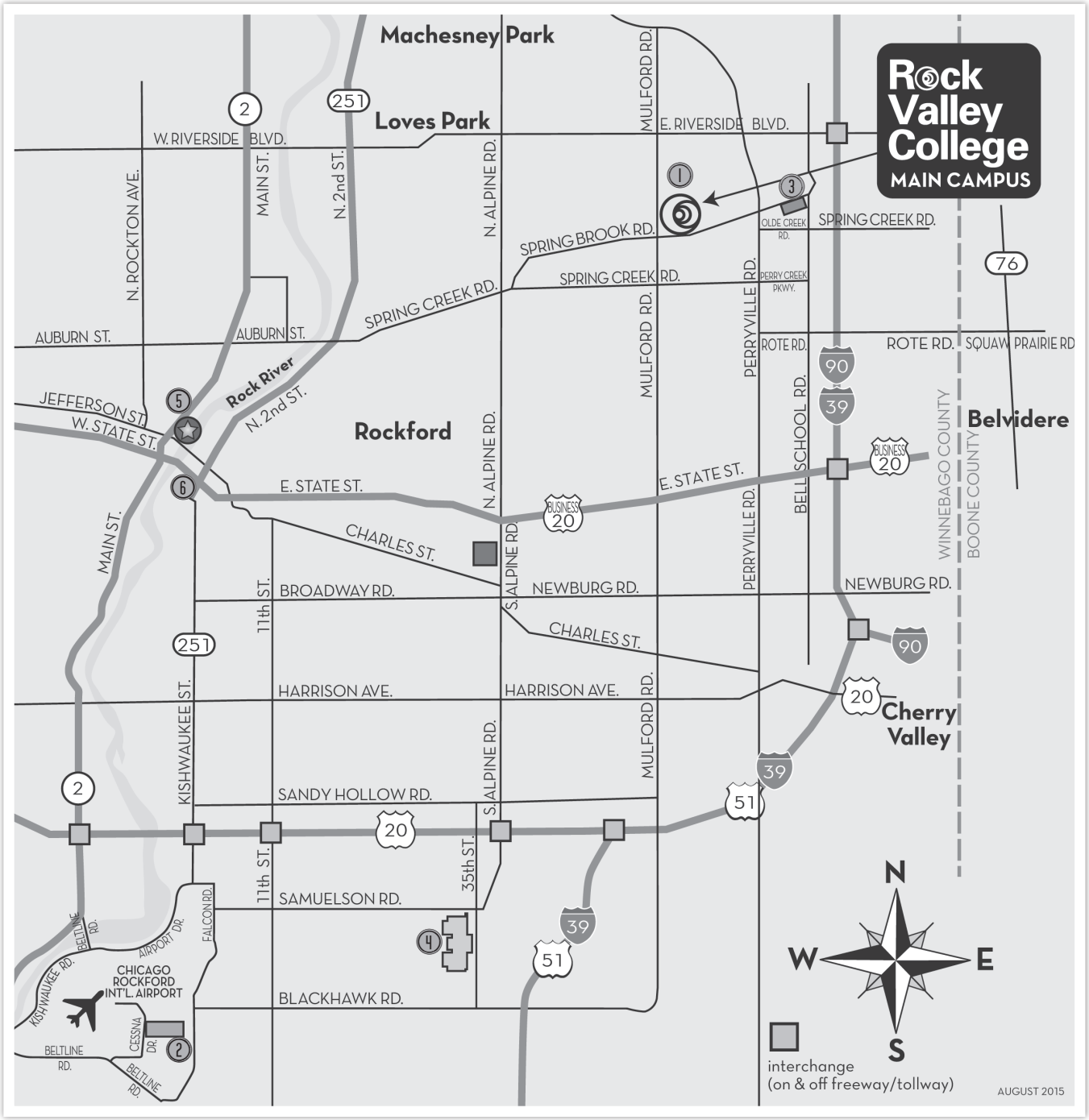


RVC CAMPUS & BUILDING LOCATIONS in Rockford, Illinois

① **Main Campus** | (815) 921-7821 • 3301 N. Mulford Road
Bldg. G-Piano Lab, CLI, CLII, ERC (Library & PAR), JCSM, PEC, SBHS, Starlight & Studio Theatres, SC, SSB, WTC (plus Athletic, Baseball, & Softball Fields)

② **Aviation Career Education Center (ACEC)** | (815) 921-3020 | 6045 Cessna Drive

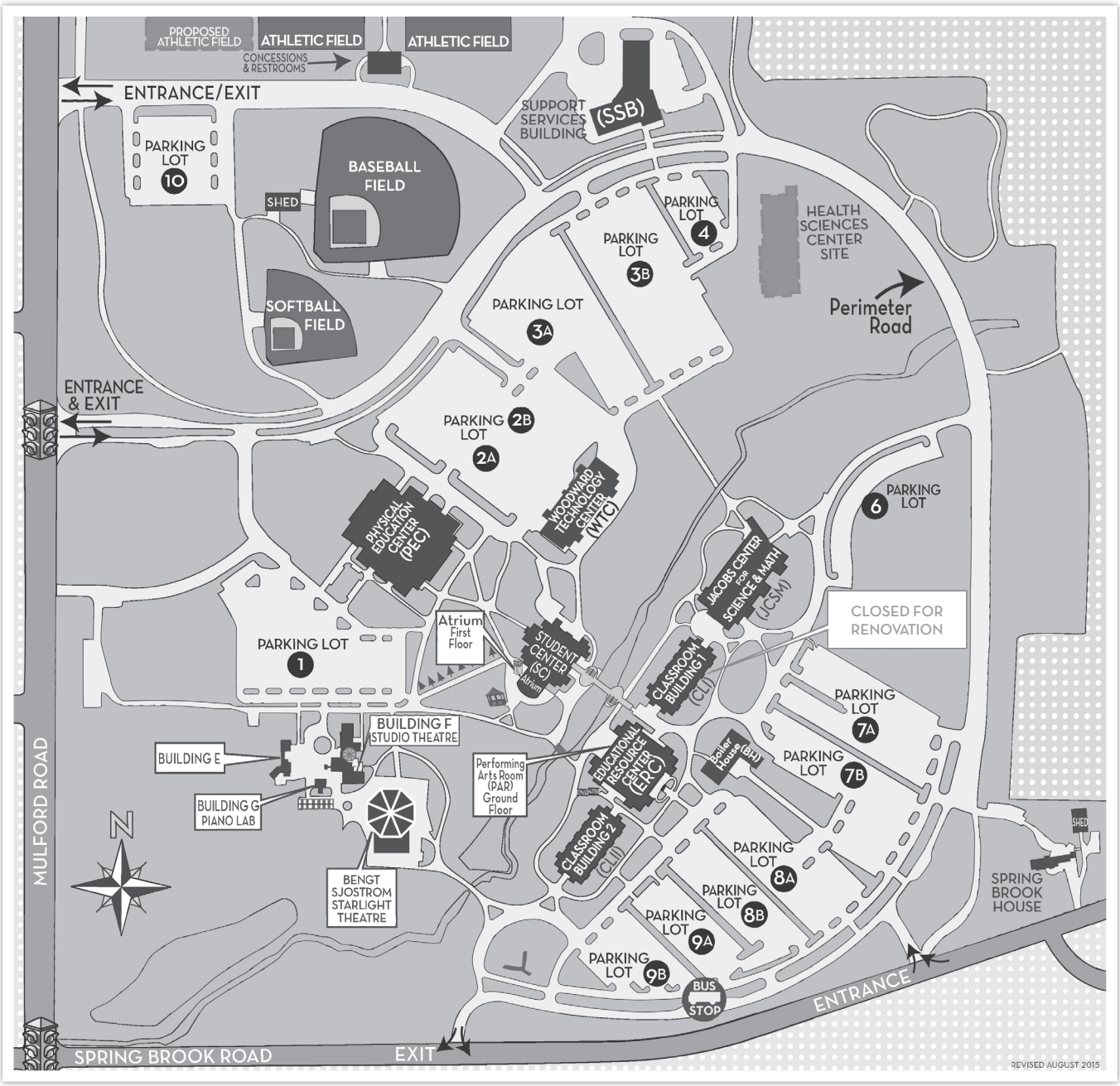
③ **Bell School Road Center (BELL)** | (815) 921-3930 | 350 N. Bell School Road
Center for Learning in Retirement

④ **Samuelson Road Center (SAML)** | (815) 921-4146 | 4151 Samuelson Road (just east of Rockford Jefferson High School)

⑤ **N. Main Street Center (NMST)** | (815) 921-2200 | 303 N. Main Street (in the Supply Core Building)
Employment & Grants/Workforce Development: Dislocated Workers Program, Elevate (Youth) Program, Refugee & Immigrant Services

⑥ **Rock Valley College Downtown (RVCD)** | (815) 921-2000 | 99 E. State Street (second floor, Rockford Register Star building)
Adult Education, Developmental Math & Reading, and General Education Credit Classes

MAPS



RVC MAIN CAMPUS – 3301 N. Mulford Road, Rockford, Illinois 61114

① **Classroom Building 1 (CLI):**
Closed for Renovation

② **Classroom Building 2 (CLII):**
Instructional Classrooms, Computer Labs, & Nursing Labs

③ **Educational Resource Center (ERC):**

2nd Floor
- *Academic Affairs Office*
- *EAGLE Support*
- *Group Study Rooms*
- *Institutional Research*
- *Instructional Classrooms*
- *Instructional Support/ATLE*
- *Conference/Meeting Room*

1st & 2nd Floors - *Estelle M. Black Library*

1st Floor
- *Computer Labs (inside Library)*
- *Meg's Daily Grind*
- *Vending Machines*

Ground Floor
- *Mass Communication*
- *Performing Arts Room (PAR)*

④ **Karl J. Jacobs Center for Science & Math (JCSM):**

2nd Floor - *Physical Science*

1st Floor - *Life Science*

Ground Floor
- *Math*
- *Vending Machines*

⑤ **Physical Education Center (PEC):**

1st Floor
- *Dance / Exercise Studio*
- *Gymnasium*
- *Fitness Rooms (Cardio & Weights)*
- *Fitness, Wellness, & Sport Dept.*

Ground Floor
- *Instructional Classrooms*
- *Locker Rooms*
- *Vending Machines*

⑥ **Spring Brook House (SBHS):**
Foundation and Marketing

⑦ **Student Center (SC):**

2nd Floor
- *Student Services*
- *TRIO Complete Office*

1st Floor
- *Atrium*
- *"the HUB" & Food Court (Papa John's Pizza, Subway, and Vending Machines)*
- *Computer Lab* - *Information Desk*
- *Meeting Rooms* - *Student Life*
- *Student Club Offices (C.A.B. & S.G.A.)*

Ground Floor
- *Bookstore* - *Disability Support Services*
- *Testing Center* - *Tutoring & Writing Center*
- *TRIO Achieve Office* - *Vending Machines*
- *Valley Forge (Student Newspaper)*

⑧ **Support Services Building (SSB):** *Administration Services, Human Resources (HR), & RVC Police Department (RVCPD)*

⑨ **Woodward Technology Center (WTC):** *RVC-NIU Classrooms & Labs, Instruc. Classrooms, Computer Labs, & Conference Rooms*

⑩ **Health Sciences Center Site:**
Instructional Classrooms, Labs, & Conference Rooms

Rock Valley College

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