Rock Valley College

Course Catalog 2011-2013




www.rockvalleycollege.edu

Welcome to Rock Valley College! On behalf of the Board of Trustees, faculty, and staff, we are pleased to assist you in learning more about our institution and help you make decisions regarding your future education.

For over 40 years, Rock Valley College has been serving the region as our community's college. We are proud to continue in this role, whether your plans include a certificate, an associates degree, or perhaps just a few classes to better identify your interests. I invite you to visit our campus soon and to stop in the Student Center to meet with advisors and financial aid professionals. All of these folks are uniquely qualified to help you assess your needs, direction, and best path for meeting your goals. You'll find very helpful people who understand your questions and are happy to assist you in any way.

If you cannot get to campus soon, please visit our web site and take the virtual tour. Many questions can also be answered through this venue, and I believe you will find it to be a very useful tool and easy to navigate.

Rock Valley College's vision is to "make a difference through teaching, learning, and leading." We take this statement very seriously, as you will see in our instruction, staff, programs, and facilities. The quality of education and services you will receive at Rock Valley College are exceptional, and we are proud that you would consider letting us serve you.

We look forward to seeing you on campus soon!

Sincerely,

Jack J. Becherer, Ed.D.
President

CONTENTS

Rock Valley College
3301 N. Mulford Rd.
Rockford, IL 61114-5699
Phone (Toll-Free) (800) 973-7821
Main Switchboard (815) 921-7821

www.rockvalleycollege.edu

Accreditation

Rock Valley College is accredited by The Higher Learning Commission 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.

Vision Statement

As our community's college, we make a difference through teaching, learning, and leading.

Mission Statement

Rock Valley College is an educational leader in providing quality, accessible, lifelong learning opportunities, cultural enrichment, and support for economic and technological development.

We accomplish our mission by providing the highest quality programs and services to:

- *Prepare our students for ...*
  - – successful transfer
  - – competitive employment
  - – professional and personal growth
- *Foster innovative, collaborative relationships to advance...*
  - – a seamless educational system
  - – an appreciation of the arts
  - – economic and technological development
- *Provide leadership in developing a nurturing culture that...*
  - – values learning
  - – honors and respects each individual
  - – uses resources responsibly

Core Values

Learner-Centered Community
We are dedicated to providing lifelong learning opportunities that foster student success.

Mutual Respect
At all times, we uphold the dignity of each individual by being ethical, respectful, fair, and courteous in our communication and actions.

Excellence
By setting high expectations, we promote excellence in teaching and learning. We are service-centered and hold ourselves and each other accountable.

Diversity
We promote, celebrate, and accept diversity, including cultural and ethnic diversity, diversity of thought, and diverse views of others.

Collaboration
We value working together and with the community in innovative, enriching partnerships.

Innovation
We anticipate change and explore creative approaches to address the future.

Public Trust
We honor the trust placed in us by the public and uphold it through quality service, integrity of actions, and efficient use of resources.

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.

Student Learning Outcomes

Rock Valley College is committed to preparing students to:

- Communicate effectively
- Integrate technology into all fields of knowledge and expression
- Demonstrate competency in critical thinking
- Respect and work effectively with persons of diverse backgrounds and abilities
- Demonstrate the behaviors of ethical and socially responsible citizens
- Demonstrate personal wellness

BOARD OF TRUSTEES

Ted Biondo

Rev. K. Edward Copeland

Katherine M. Kelly

Ken Nelson

Stephanie Raach, Ph.D.

Randall J. Schaefer

Rock Valley College accreditation agencies

- The Higher Learning Commission
  230 South LaSalle Street, Suite 7-500
  Chicago, IL 60604
  (800) 621-7440
  www.ncahlc.org

- Accreditation Review Committee on Education in Surgical Technology (Surgical Technology program)
  6 West Dry Creek Circle, Suite 110
  Littleton, CO 80120
  (303) 694-9262

- American Welding Society
  (Welding Technology program)
  Blackhawk Chapter 13
  550 NW LeJeune Rd.
  Miami, FL 33126
  (800) 443-9353

- Automotive Service Excellence
  (Automotive Service Technology program)
  National Institute for Automotive Service Excellence
  101 Blue Seal Dr., S.E., Suite 101
  Leesburg, VA 20175
  (703) 669-6600

- Commission on Accreditation of Allied Health Education Programs (CAAHEP)
  (Surgical Technology program)
  1361 Park St.
  Clearwater, FL. 33756
  (727) 210-2354

- Commission on Dental Accreditation (CODA)
  (Dental Hygiene program)
  211 E. Chicago Ave., Suite 1900
  Chicago, IL 60611
  (312) 440-2500

- Commission on Accreditation for Respiratory Care
  (Respiratory Care program)
  CoARC
  1248 Harwood Rd.
  Bedford, TX 76021-4244
  (817) 283-2835

- Federal Aviation Administration
  (Aviation Maintenance Technology program)
  Chicago FSDO (DPA)
  DuPage Airport
  31W775 North Ave.
  West Chicago, IL 60185
  (630) 443-3100

- Illinois Bureau of Apprenticeship Training
  (Apprenticeship programs)
  USDOL/ETA/OATELS-BAT
  230 S. Dearborn St., Room 656
  Chicago, IL 60604
  (312) 596-5508

- Illinois Department of Financial and Professional Regulation
  (Nursing programs)
  320 W. Washington St.
  Springfield, IL 62786
  (217) 785-0800

- Illinois Department of Public Health
  (Certified Nursing Aide program)
  535 W. Jefferson St.
  Springfield, IL 62761
  (217) 785-5133

- National Automotive Technicians Education Foundation
  (Automotive Service Technology program)
  101 Blue Seal Dr., 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, D.C. 20036
  (202) 728-0200

- American Council on Education
  One Dupont Circle, NW
  Washington, D.C. 20036
  (202) 939-9300

- Association of Surgical Technologists (AST)
  6 West Dry Creek Circle, Suite 200
  Littleton, CO 80120-8031
  (800) 637-7433

BOARD OF TRUSTEES

Mike Olson

Jack J. Becherer
Ed.D. *President*

Marrisa Mora
Student Trustee

* Board pictured as of March 31, 2011

Elected Trustees to be seated in April 2011
Mary Tuite
Michael P. Dunn Jr.

- Council for Advancement and Support of Education
  1307 New York Ave., NW
  Suite 1000
  Washington, D.C. 20005
  (202) 328-2273

- Council of North Central Two Year Colleges
  513 Split Rock Drive
  Jefferson City, MO 65109
  (573) 634-4848
  cnctyc@embarqmail.com

- National Board of Surgical Technology and Surgical Assisting
  6 West Dry Creek Circle, Suite 100
  Littleton, CO 80120-8031
  (800) 707-0057

- National Organization for Associate Degree Nursing
  NOADN National Office
  7794 Grow Drive
  Pensacola, FL 32514
  (850) 484-6948, (877) 966-6236

Public high schools within the college district

Belvidere, Byron, Durand, Harlem, Hononegah, North Boone, Pecatonica, Rockford Auburn, Rockford East, Rockford Guilford, Rockford Jefferson, South Beloit, Stillman Valley, Winnebago, students living in portions of Oregon's district.

Nondiscrimination Clause

Rock Valley College does not discriminate on the basis of race, color, creed, religion, national origin, disability, age, sex, This notice is provided as required by Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, the Age Discrimination Act of 1975 and the Americans With Disabilities Act of 1990. Questions, complaints, or requests for additional information regarding these laws may be forwarded to the designated compliance coordinators.

Title IX and Section 504/ADA Compliance Officer – Employees
Ms. Jessica Jones, Managing Director of Human Resources
(815) 921-4755
j.jones@rockvalleycollege.edu

Title IX and ADA Compliance Officer – Students
Ms. Lynn Perkins, Director, Enrollment Management and Judicial Affairs
(815) 921-4268
g.perkins@rockvalleycollege.edu

Section 504 Coordinator – Students
Ms. Lynn Shattuck, Coordinator of Disability Services
(815) 921-2356
l.shattuck@rockvalleycollege.edu

Title IX Coordinator – Athletics
Ms. Misty Opat, Interim Athletic Director
(815) 921-3807
m.opat@rockvalleycollege.edu

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

Sexual Harassment Policy Statement

Rock Valley College will not tolerate sexual harassment, regardless of the nature of the harassment, by any employee or student of the college. Any employee or student of the college who practices sexual harassment will be disciplined in accordance with the college's policies and procedures.

Disclaimer

The information in this catalog 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.

ACADEMIC CALENDAR 2011 - 2012

SUMMER 2011 SESSION I - THREE-WEEK SESSION (10 days plus 1 final day)

May 23 (Monday)*.....Classes Begin
May 30 (Monday) .....College Closed
June 9 (Thursday) .....Final Exams
June 13 (Monday) .....Grades Due before 12 Noon

SUMMER 2011 SESSION II - EIGHT-WEEK SESSION (28 days plus 2 final exam days)

June 13 (Monday)* .....Classes Begin
July 4 (Monday) .....No Classes/College Closed
July 5 (Tuesday).....No Classes/College Open
August 2 (Tuesday).....End of Classes
August 3, 4 (Wednesday, Thursday) .....Final Exams for Session II
August 8 (Monday) .....Grades Due before 12 Noon

SUMMER 2011 SESSION III - FOUR-WEEK SESSION (14 days plus 2 final exam days)

July 11 (Monday)*.....Classes Begin
August 2 (Tuesday).....End of Classes
August 3, 4 (Wednesday, Thursday).....Final Exams for Session III
August 8 (Monday).....Grades Due before 12 Noon

FALL SEMESTER 2011

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).....Staff Development Day/No Classes
November 23 (Wednesday).....Fall Recess/No Classes/College Open
November 24, 25(Thursday, Friday).....No Classes/College Closed
November 26, 27 (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 19 (Monday) .....Grades due before 12 Noon
December 26 – January 2.....No Classes/College Closed

SPRING SEMESTER 2012

January 3 (Tuesday).....Offices Open
January 13 (Friday) .....Faculty Development Day/College Open
January 14 (Saturday)*.....Weekend Classes Begin
January 16 (Monday) .....No Classes/College Closed
January 17 (Tuesday)*.....Weekday Classes Begin
March 12 – 17 (Monday-Saturday).....Spring Recess - No Weekday/Weekend Classes
March 19 (Monday) .....Weekday/Weekend Classes Resume
April 5 (Thursday) .....Faculty/Staff Development Day/No Classes
April 6, 7, 8 (Friday, Saturday, Sunday) .....No Classes/College Closed
May 5 (Saturday).....End of Weekend Classes
May 11 (Friday).....End of Weekday Classes
May 12, 14, 15, 16, 17, 18
(Sat, Mon, Tue, Wed, Thur, Fri) .....Final Exams for Weekend & Weekday Classes
May 18 (Friday at 6 pm).....Graduation Exercises
May 21 (Monday).....Grades Due Before 12 Noon

**Most 16-week classes begin this week. Check class schedule for specific dates. Deadlines vary for courses less than 16-weeks in length. Contact Records and Registration for specific dates.*

CONTACT INFORMATION

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, 105, 110)
- Early Childhood Education – ECE
- Fire Science – FRE
- Respiratory Care – RSP
- Surgical Technology – SRG

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

Communication & Education-Division Office ..... (815)-921-3338
- Composition & Literature-ENG/JRN/LIT
- Developmental English - ENG
- Early Childhood Education - ECE
- Education-EDU
- Reading - RDG
- Speech-SPH

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

Math, Human Services, & Fitness, Wellness & Sport, Division Office..... (815) 921-3412
- Fitness, Wellness & Sport — FWS
- Human Services — HSR
- Mathematics — MTH

Nursing - Division Office..... (815)-921-3261
- Nursing Aide- NAD
- Associate Degree Nursing -NRS
- Hybrid Online Nursing- NUR
- Practical Nursing – PNU

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
- Mass Communication – COM
- Economics – ECO
- Geography – GEO
- History – HST
- Humanities – HUM
- Modern Languages – FRN, GRM, SPN
- Philosophy – PHL
- Political Science –PSC
- Psychology – PSY
- Sociology – SOC

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

Theatre – Division Office – THE ..... (815) 921-2167
Academic Advising and Personal Counseling ..... (815) 921-4100
- Academic Advising
- Academic Goal Planning
- Personal Counseling

Adult Education & Literacy..... (815) 921-2001
Admissions ..... (815) 921-4250
Athletics ..... (815) 921-3800
Bookstore ..... (815) 921-1680
Career Services and Placement..... (815) 921-4091
Center for Learning in Retirement..... (815) 921-3930
Community Education Outreach ..... (815) 921-3900
Continuing Professional Education..... (815) 921-3900
Cooperative Agreements..... (815) 921-4281
Disability Support Services..... (815) 921-2356
Dislocated Workers Program..... (815) 921-2200
Distance Learning
- EAGLE Support Center..... (815) 921-4646
- eaglesupport@rockvalleycollege.edu ..... (815) 921-4647

Financial Aid and Scholarships..... (815) 921-4150
First Year Experience/New Student Programs .. (815) 921-4094
- Educational Planning Sessions
- New Student Welcome Events
- STU 100-Planning for Success

Foundation Office..... (815) 921-4500
High School Connections ..... (815) 921-4080
Honors Program..... (815) 921-4080
Information Center..... (815) 921-4250
Judicial Affairs..... (815) 921-4284
Learning and Opportunity Center (LOC)..... (815) 921-4290
Library
- Educational Resources Center..... (815) 921-4600
- Circulation Service..... (815) 921-4615
- Interlibrary Loan ..... (815) 921-4607
- Reference Desk..... (815) 921-4619
- Serials..... (815) 921-4623

Mathematics Lab/JCSM..... (815) 921-3465
Public Safety..... (815) 921-4350
Records & Registration Office..... (815) 921-4250
Recruitment & Admissions Office ..... (815) 921-4250
Section 504 Coordinator..... (815) 921-2356 v/tty
Starlight/Studio Theatre Box Office ..... (815) 921-2160
Student Government Association/Student Life/ Student Clubs ..... (815) 921-4180
Student Newspaper (Valley Forge) ..... (815) 921-3330
Stenstrom Center (SCCE)-Samuelson Road Campus
Student Development Services ..... (815) 921-4146
Testing Center..... (815) 921-2380
- Placement Testing
- Exam Proctoring

Tuition Payments ..... (815) 921-4414
Tutoring Services/Student Center ..... (815) 921-2370
Transfer Center..... (815) 921-4116
Upward Bound ..... (815) 921-4237
Veteran's Services..... (815) 921-4163
Writing Center/ERC-2nd Floor ..... (815) 921-3327

ABOUT THE COLLEGE

History

For more than 40 years, Rock Valley College has offered comprehensive educational opportunities in a broad range of subjects to tens of thousands of residents of its service district. The college was established in 1964 through a district-wide referendum after a two-year study established the need for a community college. RVC's district is comprised of Winnebago and Boone counties and parts of Stephenson, Ogle, McHenry and DeKalb counties.

The college is located on a 217-acre tract of land at Mulford and Spring Brook roads in northeast Rockford. In addition to the main campus, RVC operates programs at owned facilities at the Stenstrom Center for Career Education on Samuelson Road, home to several health and technical programs, the Learning and Opportunity Center in Stewart Square in downtown Rockford, the Aviation Center at the Chicago-Rockford International Airport in Rockford, and the Bell School Road Center, which houses the college's Center for Learning in Retirement.

Rock Valley College holds Continuing Education classes at more than 50 sites throughout its district, and operates employment and training programs at the Illinois Employment Training Center on at 303 North Main Street in Rockford. RVC boasts one of the Midwest's largest and most successful outdoor theaters. Starlight Theatre has a state-of-the-art, one of a kind open-air roof structure at the renovated and expanded Bengt Sjostrom Theatre on RVC's campus.

The college is involved in workplace training programs, innovative cooperative programs with area high schools and state-of-the-market technology programs for business and industry.

Eight men's and women's intercollegiate sports are offered at RVC. The Golden Eagles compete in NJCAA Division III in volleyball, men's and women's basketball, baseball, softball, men's and women's tennis and golf. Many of the teams have enjoyed national prominence in recent years. RVC's rich athletic history includes more than 100 All-Americans and seven national championships.

Since opening for classes in 1965, RVC has grown from a small community college with 35 faculty members and 1,100 students to an institution of 140 faculty members, 500 part-time lecturers and more than 8,500 students.

For more information on Rock Valley College, visit the college's Web site at www.rockvalleycollege.edu.

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 $5 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 $900,000 has been awarded to students through the Foundation scholarship program. In addition, the foundation has allocated over $508,000 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, call (815) 921-4500, or visit them on the Web at www.rockvalleycollege.edu/foundation.

Photo taken at Commencement Exercises 2010
(left to right) Sam Overton (Vice President, Administrative Services), Dr. Diane Nyhammer (Provost/Chief Academic Officer), Susan Busenbark (Dean of Academic Development and Instructional Support), Mike Olson (RVC Trustee), Gloria Wiekert (RVC Student Trustee 2009-2010), Dr. Stephanie Raach (RVC Trustee), Ken Nelson (RVC Trustee), Mike Mastroianni (Associate Vice President, Outreach and Planning), Amy Diaz (Associate Vice President, Student Development), Randy Schaefer (RVC Trustee), Dr. Jack Becherer (RVC President), Ted Biondo (RVC Trustee), Rev. K. Edward Copeland (RVC Trustee), Suzanne Berger (Vice President, Institutional Advancement – retired), Kathy Kelley (RVC Trustee), Associate Professor Linden Griesbach (2010 Faculty of the Year), Greg Wear (Associate Vice President, Academic Affairs)

GETTING STARTED

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 GED earners.
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 campus or check us out on the Web at www.rockvalleycollege.edu/explorervc.
2. Submit an Enrollment Information Form to Recruitment and Admissions. Programs with limited enrollment that require additional application steps include Aviation Maintenance Technology, Nursing, Dental Hygiene, Surgical Technology, Licensed Practical Nursing, and Respiratory Care. Refer to the Career Education Programs section for specific program admission details.
3. Apply for Financial Aid. See page 18 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.
6. Register for and attend an Educational Planning Session (EPS). All new RVC Students are required to attend a session before they can register for classes. Sign up for a convenient time at www.rockvalleycollege.edu/education-planning or call (815) 921-4094.
7. Consider making an appointment to see an academic advisor to discuss course planning and academic goals. Call (815) 921-4100 to make an appointment.
8. Register for classes – www.rockvalleycollege.edu/online-services
9. Arrange payment by the deadline. Check the course schedule book for payment due date or at www.rockvalleycollege.edu

International Student Admission

Students who are in the U.S. on a visa are considered international students. To enroll at the college, these students must:

1. Complete an RVC Enrollment Information Form for admission.
2. Submit proof of English language competency.
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 all steps of new student process indicated above.

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.

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 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 3 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.

Financing Your Education

- 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.*

Dual Credit & Dual Enrollment Admission

The High School Connections Office (HSCONNECTIONS) at RVC provides services and support to students taking college level courses while still in high school. These Dual Credit opportunities are:

1. Dual Credit (general): classes available at RVC or in area high schools;
2. Career College – certificate-completion programs in partnership with the Career Education Association of North Central Illinois (CEANCI).
3. Running Start – degree-completion program for qualified high schools students to attend RVC full-time,completing a high school diploma and an Associate degree simultaneously.

Dual Credit Enrollment is also available to high school students, taking RVC courses while still in high school. If you have any questions, please call (815) 921-4080 or go online at www.rockvalleycollege.edu/StudentServices/HSConnections/index.cfm

The Honors Program At Rock Valley College

The HONORS Program at Rock Valley College is aimed at students who desire invigorating study, who want to learn for the sake of learning, and who want a college degree that testifies to an exemplary course of studies in the tradition of the liberal arts.

HONORS Program offerings are intended to foster discussion, a mastery of content, critical thinking, and analysis. The program is designed to help develop student initiative and leadership skills. Various academic/curricular options combine with co-curricular and extracurricular honors activities to enhance the program.

Students seeking admission to the HONORS Program must –

1. Meet the following admission requirements to proceed with the application process:
   A. GPA: Cumulative GPA of 3.5 or higher (on a 4.0 scale) from either high school or an accredited college or university (based on 24 transfer credit hours);

AND

   B. Test Scores: ACT composite of 25 or SAT score of 1130 (Reading & math).
2. Complete the official HONORS Application Form.

The application form and details for application procedures are available by calling HSCONNECTIONS at (815) 921-4080, or by going online at www.rockvalleycollege.edu/Academics/HONORS.cfm.

Returning Students

1. Review courses already taken and carefully review the catalog and class schedule available at www.rockvalleycollege.edu/onlineservices.
2. Students who have earned a college degree from an accredited university may request an EPS waiver (call 815-921-4094).
3. Consult with an academic advisor when selecting classes and setting academic goals. Call (815) 921-4100.
4. If nearing graduation, submit an application for graduation to the Records and Registration Office.
5. Check the course schedule book for registration dates.
6. Register for classes.
7. Arrange payment by payment deadline. Check the course schedule book for payment due date.

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 & Registration office, along with a transcript evaluation request form. The transcript evaluation form is available in the Records & 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.
- 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 & Associate of Science beginning on p. 33 and, and in the degree/certificate requirements in the Career Technical Education Programs beginning on p. 46)
- Transfer credit does not affect cumulative GPA at RVC.
- 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.
- Students may be required to provide course descriptions/syllabi to complete the transfer credit process.
- Foreign transfer credit must be evaluated by Education Credential Evaluators (ECE). Forms for evaluation are available in the Records & Registration Office.

- Military transfer credit may be awarded upon evaluation of the Military transcript. Four Physical Education (PE) transfer credits will be awarded upon review of the Military DD214. (Note: only three PE credits can be used towards degree completion) Other Military course work may be submitted and evaluated. This 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 for degree completion).

Admission Requirements For Transfer Degree Programs

Students pursuing a transfer degree (Associate of Arts, Associate in Science, Associate in Engineering Science or the Associate in Arts in Teaching-Secondary Math), 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 2.00 GPA), which must include ENG 101, SPH 131, one social science 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 (100 level or higher) are required to meet placement requirements by completing the placement test or by submitting ACT/SAT scores or college transcripts. 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 www.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 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 week prior to testing in order to arrange appropriate services, (815) 921-2356 (V/TTY).

First Year Experience And New Student Programs

1. All new students are required to participate in an Educational Planning Session (EPS) before they can register for credit courses. The Educational Planning Session focuses on necessary information about the transition into RVC, academic expectations and responsibilities, processes and services that students need to know in order to have a successful start at RVC. Register online at www.rockvalleycollege.edu/educationplanning or call (815) 921-4094.
2. New students are encouraged to attend a New Student Welcome event before their first semester. This event will include campus event tours, mock classrooms and a chance to meet faculty, staff and students. Invitations will be sent to new students, or call (815) 921-4094.
3. New students are encouraged to enroll in STU 100-Planning for Success – a course designed to assist in transitioning to and excelling in college.

For more information, contact First Year Experience and New Student Programs at (815) 921-4094.

Academic Advising and Personal Counseling

Academic advisors provide educational advisement and assistance with academic planning so that students can select education and training programs that are consistent with their academic and career goals. Personal counseling is available to help students resolve or cope with personal areas of concern that threaten to interfere with their study. Counseling and referral to community agencies are also available for students experiencing problems outside of college life.

Academic advising on specific programs is available to all students who have submitted an Enrollment Information form and have completed all testing requirements. Appointments can be made at the Academic Advising and Personal Counseling Center at (815) 921-4100.

Records and Registration

In order to register for classes, students must have completed an Enrollment Information Form for Admission, attended an Educational Planning Session (EPS), and completed testing requirements. Dates, times, and methods for registration are listed in the course schedule book. Students who have been limited in their enrollment for academic reasons may appeal to the appropriate dean.

Auditing A Class

Students who wish to audit a course without receiving credit must contact the Records and Registration Office. Auditing students pay full tuition and fees - see Tuition and Fees located in the credit class schedule book and on the RVC Website: http://www.rockvalleycollege.edu/Admission/tuition.cfm. Changes may be made from credit to audit, or vice versa, only during the open registration period, as indicated in the credit class schedule book. Audits are not allowed for non-credit courses.

Academic Load

Full time students: Students who enroll in 12 or more credit hours during fall or spring semesters, or 6 or more credit hours during the summer session. The recommended maximum academic load during fall or spring semesters is 18 credit hours, during Summer Session I and III is 4 credit hours, and Summer Session II is 9 credit hours; registration for any additional hours must be approved by the Associate Vice President of Academic Affairs.

- A petition for academic overload is required and can be obtained in the Academic Advising Office in the Student Center.

Part time students: Students who enroll in 11 or less credit hours during fall and spring semesters, and less than six credit hours during the summer session.

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, Counselor, 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 & Registration office (815-921-4250). Enrollment Appeal forms are available in the Records & 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 and 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.

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. 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.

Out-Of-District Students

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" (page 92).

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 current credit class schedule book or on the RVC Website at http://www.rockvalleycollege.edu/admission/tuition.cfm

Tuition For Senior Citizens

Students 62-64 years of age 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 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. To qualify, a student must meet the appropriate age qualification prior to July 1 of the year in which enrollment is planned for summer and fall courses. Spring semester registrants must meet the age qualification prior to January 1 of the year they are enrolling. Audited courses do not qualify for tuition discount offered to those 62 or older.

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 & 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 – 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

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. (See course schedule for specific dates.) 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 & Registration office. A Tuition Appeal does not automatically result in a refund. Tuition Appeals may be submitted within the term 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.

Payment Information

Student RVC billing statements are available at www.rockvalleycollege.edu/onlineservices. Payment deadlines vary based upon registration date. Refer to the credit class schedule book for specific dates by which students must pay or enroll in a deferred payment option.

Payment methods include cash, check, or credit card (Mastercard, Visa or Discover). To make a payment students can:

1. Go to www.rockvalleycollege.edu/payment to pay Online via Nelnet Tuition Management,
2. Visit the Accounts Receivable Office in the Student Center, or

Students receiving financial aid or scholarships should contact the Financial Aid Office to ensure payments are applied correctly.

Students who do not make payment or select a deferred payment option, or financial aid students who have not received an award letter confirming their aid by the payment arrangement deadline will have classes canceled for non-payment.

Cooperative Agreements And 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 92.
- 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 Student Development Office to schedule an appointment at (815) 921-4281.

Note: A cooperative agreement supersedes a tuition chargeback. See the listing of Cooperative Educational Agreements on page 92.

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 employment. For complete information about financial assistance, contact the Financial Aid Office at (815) 921-4150 or go to www.rockvalleycollege.edu/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 1 for the upcoming fall/spring/summer semesters to assure full consideration for all grants. Applications are considered on a date received basis. For "priority consideration" deadlines students should refer to the RVC Financial Aid Handbook. Students are encouraged to file online at www.fafsa.gov. Over 50% of the FAFSA applications received last year contained errors. To avoid lengthy delays in processing, please complete forms accurately.

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. For a copy of the entire policy, students can contact the Financial Aid Office for the Financial Aid Handbook or view online at www.rockvalleycollege.edu/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 requirement

A student must maintain a minimum GPA requirement or probation status in order to continue receiving financial aid.

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.

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.

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 www.rockvalleycollege.edu/scholarships.

Veterans' Program

Students interested in VA benefits, Illinois veterans' benefits, and any other related programs should contact the Financial Aid Office. For more information, call (815) 921-4163.

Federal Refund Policy And Repayment Of Financial Aid

Students receiving Title IV funds (Federal Pell Grant, Federal SEOG, and Federal Family Education Loans) who withdraw from all classes will be subject to the federal 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 www.rockvalleycollege.edu/financial aid.

Helpful Web Sites Include:

www.finaid.org
www.mapping-your-future.org
Illinois Student Assistance Commission
(ISAC) (800) 899-ISAC
www.collegeillinois.org

U.S. Department of Education
(800) 4 FED AID
www.studentaid.ed.gov

Students can obtain printed copies of The Student Guide from the U.S. Department of Education at www.studentaid.ed.gov.

Academic policies and procedures

Transcript Requests

In order to obtain a transcript from Rock Valley College, a signed transcript request form is required. The transcript request form is located on the Rock Valley College website under the Records & Registration page or can be obtained in the Records & Registration Office located on the top floor of the Student Center. If you have attended Rock Valley College in the past two years, you may also request a transcript via Online Services located at www.rockvalleycollege.edu/online-services. There is no fee for a Rock Valley College transcript.

Transcripts from other institutions will not be released or copied for distribution once Rock Valley College obtains the transcript. Copies must be obtained from the issuing institution.

Questions regarding transcript requests should be directed to the Records & Registration Office at (815) 921-2380.

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.

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.

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 096, 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 (096, 099) who drops the class will be withdrawn from all classes. RDG 080 (096, 099) may be repeated only one time.

Developmental Math Policies

If a student receives two non-passing grades (Ds or Fs) in a developmental math course, that student is not allowed to re-enroll for another math class at Rock Valley College without permission of the Associate 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:
www.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 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. A maximum of 47 credit hours may be earned through CLEP. 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 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 credits for students currently enrolled in RVC credit classes. To obtain more information about CLEP, see www.collegeboard.com/clep and www.rockvalleycollege.edu/clep or contact the Testing Center at (815) 921-2380.

3. Advanced Placement (AP)

Credit may be 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 credits for students currently enrolled in RVC credit classes.

To obtain more information about AP, see www.collegeboard.com/ap and www.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 And 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 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 Illinois State Fire Marshal approved course programs, National Fire Academy, 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 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 then added to the number of credit hours in which the student earned a B multiplied by 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.

President's List And 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 grade point average 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 grade point average 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 Associate Dean. Once the appeal is read, the Associate 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 Associate Dean have reached a decision, the Associate 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 Associate Vice President of Academic Affairs of the College for further review. When the faculty member and the Associate Vice President of Academic Affairs have reached a decision, the Associate Vice President of Academic Affairs 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 the Provost/Chief Academic Officier requesting a hearing by the Grade Review Committee. All decisions of this committee are 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.

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. Only those students with an RVC grade point average of 2.5 or lower will be considered for academic forgiveness.
5. 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.
6. Academic forgiveness does not apply to courses which have been repeated and completed with grades of A, B, C, D, or F.

Petitions/forms may be obtained from the Records and Registration Office. Eligible students may apply for consideration for academic forgiveness to the Associate Vice President of Academic Affairs.

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 term 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:*
2005-2007	2012
2007-2009	2014
2009-2011	2016
2011-2013	2018

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, associate dean 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 in the Records and Registration Office, top floor of the Student Center, by the publicized deadlines (class schedule) in order for their degree to be processed.

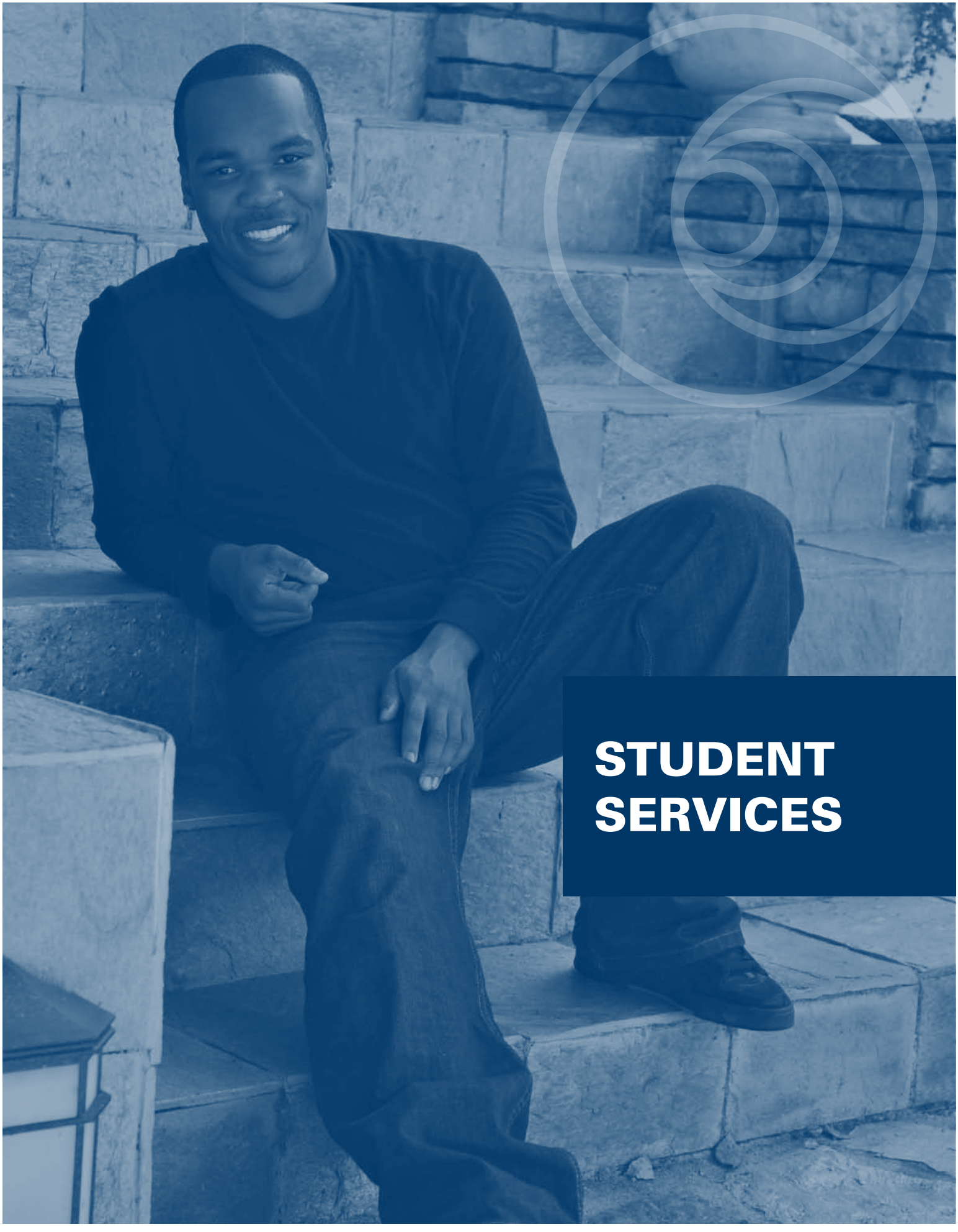
Commencement Ceremony

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.T., 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. 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, 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.



STUDENT SERVICES

Student Services

Student Information Center

The Rock Valley College Student Information Center is located in the heart of campus on the first floor of the Student Center. In addition to providing information on campus locations, services, and activities, the Information Center provides services including:

- Getting Started
- Enrollment Information Form
- Student ID issued (photo ID required)
- Check cashing (up to $10)
- Mail services - buy a stamp or drop off campus or U.S. mail
- Ticket sales for student events
- Assistance using RVC Online Services
- Vending refunds (three day return policy)
- Campus Tours

To contact the Information Center, call (815) 921-4250.

Bookstore

The Barnes and Noble Bookstore on campus offers used and new textbooks, digital books, reference and general reading books, supplies, backpacks, insignia clothing and gifts, and gift cards. To rent or purchase textbooks and digital textbooks, students can go to www.yourcampusyourbookstore.com where they can have books shipped to their homes or held for pick up in the bookstore. Also, go to www.campusestore.com for academically priced software. Book buyback for fall and spring term is the week before finals and finals week. Summer buyback dates vary. Regular store hours for fall and spring terms are Mon.- Thurs. 8:30 a.m. - 6:00 p.m. and Fri. 8:30 a.m. - 3:00 p.m. Call (815) 921-1680 for buyback dates, summer hours, extended hours, and hour changes due to holidays and breaks.

Disability Services

Students who have a documented disability and qualify for accommodations in accordance with Section 504 of the Rehabilitation Act and/or the Americans with Disabilities Act (ADA) should contact the Disability Support Services Coordinator at: (815) 921-2356 (V/TTY) to arrange for the appropriate services.

Reasonable accommodations may include (but are not limited to) extended time for tests, textbooks in alternate formats, sign language interpreters, assistance with note taking, assistive technology, readers for tests, and Braille materials.

Verification of the disability must be provided to the coordinator from a qualified professional. Documentation should be current and include a listing of the services appropriate for the student. In order to have services in place in a timely manner, students should make contact with the coordinator as soon as possible, and one week prior to taking the placement exam for new students.

Testing Center

The Testing Center serves as the central location on campus for the professional administration of testing programs and services provided to students and community residents. Services include placement testing, exam proctoring for RVC distance learning/online courses and make-up exams, College Level Examination Program (CLEP) testing, testing accommodations for students with disabilities, and certification tests in conjunction with Certiport/Microsoft, ETS/Praxis, PearsonVUE, CATS and other test vendors. District students enrolled in post-secondary, distance learning/online programs at other institutions may also complete testing in the center. For more information, see www.rockvalleycollege.edu/testing or call (815)921-2380.

Transfer Office

The Transfer Office assists students planning to transfer to a four-year college or university. Resources available include guidance on selecting RVC courses, guidance in completing admission and scholarship applications and accessing information about four-year institutions. In addition, the office staff will assist students in visiting four-year institutions. Phone: (815) 921-4116

Tutoring Center

One of the services provided by the Tutoring Center to support the academic development and enrichment of RVC students is free tutoring. All tutoring fees are included in the Student Activity fees. Types of sessions include: (1) standing (a regularly scheduled time for the same hour each week with a maximum of two sessions per week); (2) one-time (a scheduled time for only one session); and (3) walk-in (an unscheduled session if a tutor is available). Students should bring their textbooks and class notes to the session. Phone (815) 921-2370. Located in the Student Center, lower level.

Career Services And Placement

The Career Services and Placement Office serves as a clearinghouse for off-campus part-time/full-time employment listings, 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 is provided to help students obtain additional information about themselves. With a counselor's help, students are encouraged to use assessments results as indicators and a basis for planning and self-evaluation.

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
- Individual assistance with resume writing, cover letters, and job search techniques
- Resume software and computers to produce professional looking resumes and cover letters.

- One-on-one career counseling
- Career information via a computerized guidance system (CHOICES) to help plan and research career goals
- Internet access to research careers and job listings on the Web

For more information, please contact (815) 921-4091.

Additional Student Services

EAGLE Learning Management System (LMS), E-Mail, And Conferencing System

The Learning Management System 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 free EAGLE Accounts. For more information, go to the EAGLE home page at http://rvceagle.angellearning.com. For technical assistance, please visit our support site at www.rockvalleycollege.edu/Academics/EAGLESupport.cfm.

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 and 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 (2nd floor of the ERC).

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

Online Services

A wide variety of options are now available at www.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 ID number and password. For help with these services, students can call (815) 921-4250.

RVC Student Password Policy

Starting July 1 2010 all students will be setup with a username and password that will work for RVC resources RVC EAGLE, RVC Mail, Online Services & logon to RVC campus computers. If you forget your password and remember your answers to the security questions you can go to www.rockvalleycollege.edu/password. However, if you do not remember the answers to your security questions you will be required to come to campus and present a photo ID to the Information Desk in the Student Center.

Distance Learning – Online Classes, Hybrid and Telecourses

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, hybrid courses, and telecourses.

Online courses are offered via the Internet. The course materials, such as syllabi, assignments, lectures, writing prompts, and activities are all posted on a Web site or 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 the Web site or 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 attend class sessions on campus. The number and type of campus meetings vary from one course to another.

A telecourse is a complete instructional system consisting of videotapes, or DVD's a textbook and/or study guide, and a Rock Valley College instructor. Students work independently, reading the text, viewing DVD's, and completing assignments, projects, and tests. Students have contact with the instructor either by e-mail, phone or individual conferences.

Log on to http://www.rockvalleycollege.edu/LMS before registering for an online or hybrid course to find technology requirements and skills needed to succeed in a distance learning course, for online orientation information, or EAGLE training.

STUDENT SERVICES, STUDENT ACTIVITIES, STUDENT LIFE AND RIGHTS AND RESPONSIBILITIES

Library (ERC - Educational Resource Center)

Through its state-of-the-art integrated library system and Internet capabilities, the campus library provides access to a wide array of materials to support the instructional and research needs of its students and faculty. The library collection provides students and faculty with almost 100,000 items. Materials can be located through our online catalog. The library has access to close to 80 databases for locating magazines, newspapers, journals and other materials.

Viewing facilities are provided for in-house use of prerecorded videotapes and DVD's. Group Study rooms and viewing facilities may be reserved in advance. Teleconferencing capabilities also provide a means for students and faculty to keep up with the latest academic discussions.

The library contains an electronic classroom with 24 workstations, where professional librarians conduct instruction on all types of library research and hold sessions for particular classes by instructor request. It also has an open lab with 22 stations and an information Commons area with 33 workstations for individual work.

In addition to Course Reserves and Inter-Library Loan Services, tapes for telecourses are available through the library, and equipment is available to view telecourses.

ADDITIONAL TUTORING SERVICES

Math Lab

The Math Lab is staffed by faculty to serve all RVC math students. Computers are available for math related use like online math homework. Also the Math Lab offers free math tutoring, access to all math textbooks, math DVDs and calculator assistance. Contact at: www.rockvalleycollege.edu/math .

The Writing Center

Free individual and small group 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.

(815) 921-3327.

International Education And Study Abroad

RVC is committed to providing its students with cultural diversity experiences. To further this aspect of the RVC mission, the college requires that students seeking the A.A., A.S., A.A.T. or A.E.S. degrees complete at least one selected course in non-Western art, history, literature, music or speech.

RVC also provides opportunities for its students to study abroad. Qualifying students can select from the following programs:

- Canterbury Christ Church University College (Canterbury, England).
  Spring or fall semester study available. Students live with British host families and take general liberal arts courses at Christ Church.
- Carlow College (Carlow, Ireland).
  Spring or fall semester study available. Students take general liberal arts courses at Carlow College along with studying Irish culture.
- The Forester Institute (San Jose, Costa Rica).
  Summer four-week full immersion program. Students study Spanish and Latin American culture immersed in a Spanish-speaking environment and life with Spanish-speaking host families. Open to students of all majors and concentrations who want to improve language fluency.
- Salzburg College (Salzburg, Austria).
  Spring, summer, or fall semester study available. All instruction is in English, but students study German and live with Austrian host families.
- Seville, Spain. Spring or fall semester study available.
- Madrid, Spain. Four week full immersion program.
- Other opportunities are available for study in Dijon, France, and Xi'an, China (spring and fall semester).

All credits earned in these study abroad programs are posted to the students' Rock Valley College transcripts as RVC credits. All courses available at all sites contribute toward earning A.A., A.S., or A.A.S degrees, and will transfer to most senior institutions.

For more information, contact the Academic Advising and Personal Counseling Center or the International Studies Coordinator.

Public Safety

RVC's Public Safety Department is dedicated to assuring the safety of all members of the campus community (authorized by 110 ILCS 805/3-42.1). RVC police officers have the same authority as city police officers and county sheriffs, including power to arrest on view 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:

- Evening escort service
- Emergency first aid
- Investigation of criminal activity
- Delivery of emergency messages
- Administration of parking and traffic program, parking lot enforcement, and traffic control
- Vehicle assistance, which includes jumping a dead battery and unlocking a vehicle that has the keys locked inside
- Provision of general information and many other services

Public Safety Officers Are On Campus 24 Hours A Day, Seven Days A Week.

All students and visitors are required to observe traffic regulations established by the college. Copies of the regulations are available from the Public Safety Office or from the college Business Office. The speed limit on campus is 20 mph and is enforced by radar. The Department of Public Safety can be reached at (815) 921-4350 (non-emergency) and (815) 654-4357 (emergency).

Student Activities

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

Athletics

Nickname: Golden Eagles
Colors: Navy Blue and Gold
Conference: N4C (North Central Community College Conference) College of DuPage, William Rainey Harper College, Joliet Junior College, Triton College

Sports:

Men	Women
Golf	Volleyball
Basketball	Tennis
Baseball	Basketball
Tennis	Softball

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 Director of Athletics.

Physical exams and medical forms are required each year before competing.

Clubs And Organizations

A variety of clubs are organized and operating on campus. These clubs engage in numerous activities, including conferences and social and educational activities. The clubs in existence may vary from semester to semester depending on student interest. The following interest groups have been active in the past:

- A Cappella Club
- Adults on Campus
- Association of Latin American Students (ALAS)
- Black Student Alliance (BSA)
- Campus Activities Board (CAB)
- Campus Greens
- Cerca Trova
- Chamber Singers
- Circle K
- College Democrats
- College Republicans
- Future Educators' Society (FES)
- Gay-Straight Alliance (GSA)
- Gamers' Club
- Human Services Club
- Intervarsity Christian Fellowship
- Japanese Multimedia Club (JMC)
- Latter Day Saints Student Association (LDSSA)
- Men's Bowling Club
- Men's Fastpitch Softball Club
- Multicultural Club
- Music Educators' Club
- Muslim Student Association (MSA)
- Phi Theta Kappa Honor Society (PTK)
- PSY/SOC Research Club
- Rock Valley Table Tennis Club
- RVC Veterans Association
- Runners Inc.
- SHAPE (Social Sciences Club)
- Student Government Association (SGA)
- Students In Free Enterprise (SIFE)
- Society of Manufacturing Engineers' Club
- Spirit Squad
- Student Dental Hygienists' Club
- Students for Better Breathing
- Women's Bowling Club

STUDENT SERVICES, STUDENT ACTIVITIES, STUDENT LIFE AND RIGHTS AND RESPONSIBILITIES

Student Government Association (SGA)

Rock Valley College Student Government Association is a body of students elected by their peers to server as their voice on campus. The SGA's purpose is to support and advocate for the students at Rock Valley College through service and leadership. They are always seeking student input and/or concerns so that it can best serve the needs of Rock Valley Students. All student concerns are relevant and should be shared for their goal is to serve as a liaison and advocate for students with the administration and the RVC Board of Trustees. General meetings are held once a week.

The SGA is made up of 19 individuals. There are nine officers and ten student senators. Senators represent the following sectors: First-year Students, Non-Traditional Students, Transfer Students, Diversity Issues, Special Needs, Student Athletes, Outreach, Student Clubs and International Students.

Student Government represents the student body by:

1. Maintaining and exercising their voice in all student-oriented issues and consistently striving to develop the students' needs, wants, and ideas.
2. Serving on advisory committees that cover goals and objectives of Rock Valley College, class and degree requirements and campus-wide policies regarding students.
3. Providing a Student Forum for the student community to come and voice their opinions.
4. Actively pursuing student issues and promoting activities related to the increased success of the student community.

Please contact Student Life for more information about SGA and CAB at (815) 921-4180 or at
StudentLife@rockvalleycollege.edu.

STUDENT LIFE

Campus Activities Board (CAB)

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

Are you bombarded with brightly colored posters screaming at you about all of the upcoming events? Music, speakers, comedy...it's all there. Most likely, all of that activity is facilitated by our Campus Activity Board. CAB plans and executes events that are fun, educational, engaging, and far reaching.

CAB is comprised of students (officers and members) who are in charge of making sure that this campus comes alive with fun, exciting, diverse, quality entertainment and enrichment all year long. Bands, magicians, comedians, poets, speakers, hypnotists, and ninjas- if you can name it, chances are it has been here or will be here in the near future! There are five officers' seats: Chair, Vice Chair, Public Relations Coordinator and Secretary. The members may sit on any of the five committees: planning, budget, marketing, future and implementation. Meetings are held weekly.

Please contact for more information at (815) 921-4189 or at www.rockvalleycollege.edu/life.

Rights and responsibilities

The RVC campus is 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.

A complete copy of each policy or procedure is available in the RVC Student Handbook. This catalog should not be construed as constituting a contract between the college and any person. The college reserves the right to modify its policies.

The Student Code of Conduct is available in the Enrollment Management and Judicial Affairs office and on the RVC Web site, and Student Center Hub.

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 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, and other matters. The complete report is available at www.rockvalleycollege.edu/publicsafety.

Individuals may also request a paper copy of this report by contacting the Public Safety Department at (815) 921-4357 or by visiting the department in the Support Services Building.

Sex Offender List

The Rock Valley College Police Department maintains a registered sex offender list, which identifies all known registered sex offenders who are students, contractors, and/or employees at Rock Valley College. This sex offender list is available for viewing at the Rock Valley College Police Department located in the Support Services Building (SSB) or at the Information Center on the first floor of the Student Center. Sex offenders who fail to register their status as a student or employee at an institution of higher education are in violation of the Registration Act and face arrest. In addition to registering with RVC Police Department, sex offenders must also meet with the Director of Enrollment & Judicial Affairs.

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.

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 Information Technology Systems Procedure for use of RVC information technology resources as outlined. See the complete policy posted at www.rockvalleycollege.edu/about/terms.cfm.

Discipline Procedures

The Rock Valley College Judicial Affairs Department 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.

Drug-Free Campus Policy

The college intends to conform fully with the federal Drug-Free Workplace Act of 1988, 41 USC Section 701 et seq., the Illinois Drug-Free Workplace Act, 30 ILCS 580/1 et seq. and the federal Drug-Free Schools and Communities Amendments Act of 1989, 20 USC Section 3171 et seq.

By establishing this procedure, the college seeks to improve the work environment as well as the campus atmosphere by eliminating drugs and alcohol in the workplace and on the college campus, except where liquor permits have been procured or alcohol is utilized for instructional purposes.

STUDENT SERVICES, STUDENT ACTIVITIES, STUDENT LIFE AND RIGHTS AND RESPONSIBILITIES

Family Educational Rights And Privacy Act

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 for 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 for FERPA related questions.

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 Office of Enrollment Management and Judicial Affairs, (815) 921-4284. The procedures are also available in the Student Handbook.

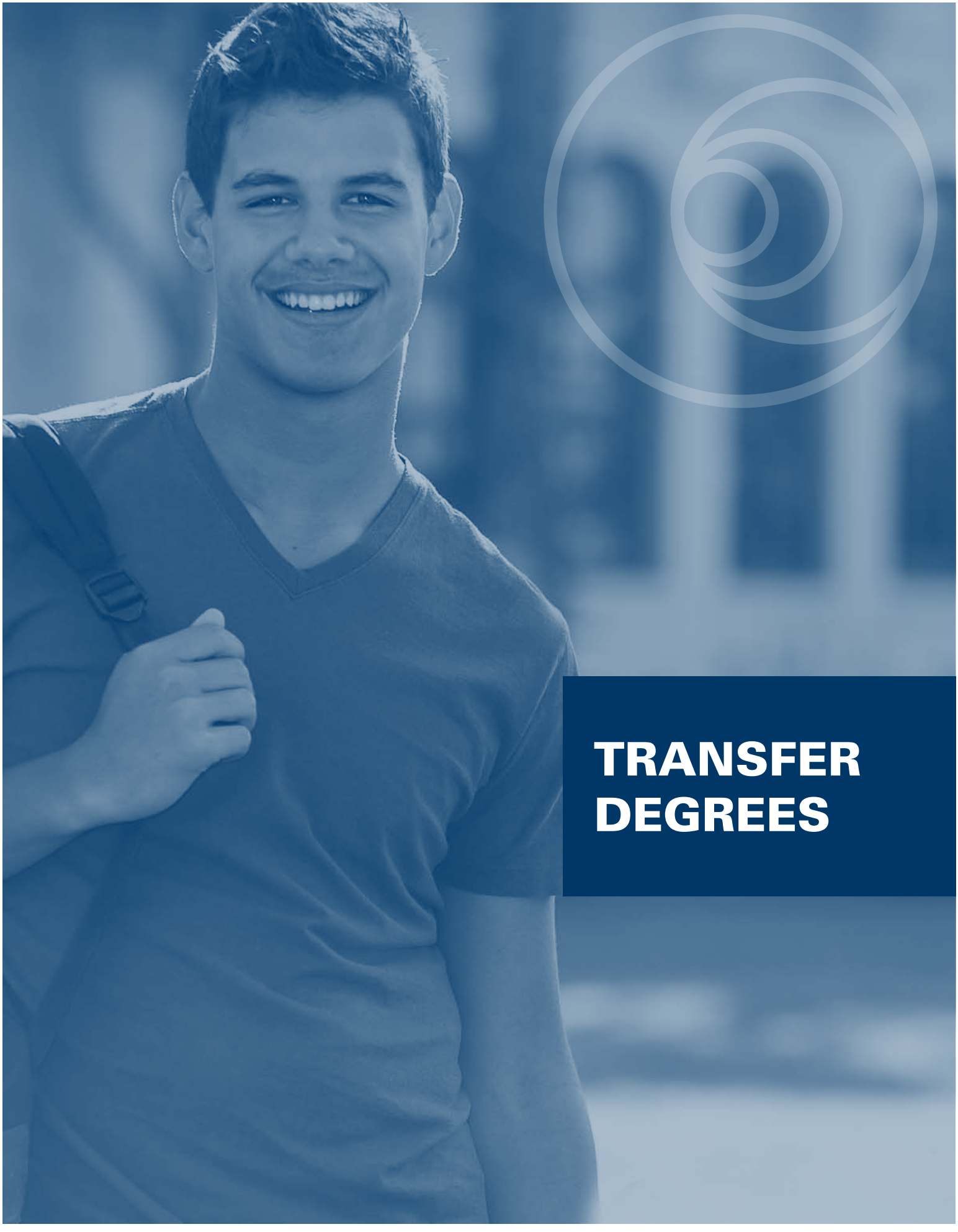
Student Assembly Policy

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.

Student Right-To-Know Information

Graduation and transfer rate information is available from the Office of Institutional Research.

Report on athletic participation rates and financial support data is available from the Athletic Director's office in the PEC.



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.), the Associate in Engineering Science (A.E.S.), and the Associate of Arts in Teaching (A.A.T.) 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 page 35 provides additional educational planning information. Academic Advisors are available to help students develop an individual education plan. Also, students should consult an Academic Advisor or program coordinator regarding the growing transfer possibilities with the Associate in Applied Science (A.A.S.) degrees.

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.

The 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.

The Associate in Arts in Teaching – Secondary Mathematics (A.A.T. - RVC curriculum #1400)

This degree allows students interested in teaching mathematics at the secondary level the opportunity to complete the first two years of college course work at Rock Valley College in preparation for transferring to a four-year institution. Because of teacher certification requirements, the transfer school requirements at colleges and universities, and RVC graduation requirements, students must meet with an advisor as soon as they declare this as their program of study.

The Associate in General Studies (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.

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 General Education Core Curriculum at any participating institution in Illinois assures transferring students that general education requirements for an Associate in Arts or Associate in Science 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's 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 General Education Core Curriculum. 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 www.itransfer.org.

General Education Core Curriculum (GECC)

The requirements for an associate's degree (A.A., A.S. A.E.S., or A.A.T) 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 consists of courses that colleges and universities consider essential for students' success in college and life. The GECC requires study in the following areas:

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

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 35. Students should also consult a Rock Valley College academic advisor for assistance in making correct course selections. In addition, they should consult www.itransfer.org for accurate updates on these requirements.

Specific Requirements For A.A. and 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 beginning on page 36 of this catalog.

Majors And Elective Courses

At Rock Valley College 14 to 21 elective credits for the Associate of Arts (A.A.) degree and 10 to 13 credits for the Associate of 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 www.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 And 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.

TRANSFER DEGREES

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 Transfer Center.

EACH STUDENT IS RESPONSIBLE FOR GRADUATION REQUIREMENTS:

- Complete a minimum of sixty-four (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) grade point average in all 100/200 level courses attempted at Rock Valley College.
- Meet residency requirements by earning a minimum of twenty (20) semester hours of 100/200 level at Rock Valley College.

Apply for graduation in the Records & Registration Office on 2nd 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

Rock Valley College 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.

Planning for Success – Education Plan

Requirements for:
Associate of Arts Degree (A.A.)
Associate in Science Degree (A.S.)
(Total Hours Required: 64)

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

COMMUNICATIONS (9 Credits)

Students whose first semester of postsecondary education is Summer 1999 or later 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"

MATHEMATICS (3-6 CREDITS)

(Both MTH 216 and 217 must be satisfactorily completed to fulfill the three-hour mathematics requirement. This two-course sequence fulfills the general education requirement only for students seeking state certification as elementary teachers.)

___	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

PHYSICAL & LIFE SCIENCES (7 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	Introduction 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 140	Introduction to Evolution	3
___	BIO 150	Microbes & Society	3
___	BIO 162	Human Heredity	3
___	BIO 208	Science in Elem. School: Tchg. Evolution	3
___	BIO 211	General Botany	4
___	BIO 221	General Zoology	4

Physical Sciences:

___	AST 202	Introduction to Astronomy	4
___	ATS 105	Introduction to Atmospheric Science	4
___	CHM 105	Foundations in Chemistry Non-Science Majors	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
___	PHY 201	Mechanics and Heat	4
___	PHY 215	Mechanics, Wave Motion & Thermodynamics	5

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

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 both categories.

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	Introduction to Poetry	3
___	LIT 143	Dramatic Literature	3
___	LIT 144	Introduction to Fiction	3
___	LIT 201	American Lit: Colonial to Civil War	3
___	LIT 202	American Lit: Civil War to Present	3
___	LIT 205	British Literature 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 Since1800	3

TRANSFER DEGREES

___	#LIT 251	Non-Western Literature Before 1800	3
___	#LIT 252	Non-Western Literature Since 1800	3
___	#LIT 260	Contemporary African Literature	3
___	LIT 275	Latin American Literature in Translation	3
___	PHL 150	Introduction to Philosophy	3
___	#PHL 151	Introduction to Non-Western Philosophy	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 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 the 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 of Gender in Visual and Performing Arts	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 AND FINE ARTS:

Interdisciplinary humanities courses that encompass both the Humanities and the Fine Arts may be used for either Humanities or Fine Arts credit.

___	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
___	LIT 141	Film as Literature (IAI approval pending)	3

KEY:

Non-Western Culture (one course required)

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

2. ADDITIONAL COLLEGE REQUIREMENTS TO BE COMPLETED:

A. 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 art course and/or ART 246; MUS 121; 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 ECO, EDU 224, GEO, HST, PSY, or SOC.
- **Non-Western Culture – one course**
  Select from: Any course listed as an IAI approved Non-Western Culture course as indicated by (#) or SPH 202.
- **Electives (14-21 additional credits)****

B. 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 2 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 course**
  Select from: Any course listed as an IAI GECC approved Non-Western course as indicated by the "#" sign from the GECC list, or SPH 202.
- **Electives (10-13 additional credits)****

****Note: Electives for A.A. and 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.

Please see further information about the IAI online at www.itransfer.org.

Associate of Arts in Teaching – Secondary Mathematics # 1400

Degree conferred: Associate of Arts in Teaching – 64 credits
Program contact: Mathematics Division (815) 921-3412

Program overview:

The Associate of Arts in Teaching - Secondary Mathematics Degree prepares students for careers in the high need teaching discipline of secondary education mathematics. This program is different from the A.A. and A.S. degree in that it provides students an opportunity to gain valuable experience being in the classroom and to help validate the student's decision to pursue a career in teaching math at an earlier stage of their academic plan. Students may obtain this degree from Rock Valley College by successfully completing the 64 credits outlined below and by meeting the graduation requirements. Students obtaining an A.A.T. degree in Secondary Mathematics should have equal status with state of Illinois university native students at the beginning of the junior year. Students should be aware that admission to teacher education programs is competitive and generally includes a minimum grade point average determined by the transfer institution. Students should declare the A.A.T. major and consult with an academic advisor as soon as possible in their enrollment. Students should also consult the college catalog and transfer guides for their intended transfer institution for any additional requirements.

Rock Valley College is a participant in the Illinois Articulation Initiative (IAI). This is a program to ease the transfer for students from 2-year or 4-year colleges/universities to 4-year colleges/universities in Illinois. The 64 credit hours needed for the AAT Degree contain the IAI GECC.

NOTE: Students seeking an AAT degree in Secondary Mathematics must also meet the following requirements for graduation: Basic Skills Test: Students must earn a passing score on the Illinois Certification Testing System (ICTS) Basic Skills Test in order to earn the A.A.T. degree. It is recommended that students take the Basic Skills Test prior to their accumulation of 45 semester hours of credit and indicate both Rock Valley College and the intended transfer institution as receiving institutions on the application for the test. Students are responsible for ensuring that an official score report is on file in the RVC Records Office prior to the graduation deadline.
The GPA for the A.A.T. degree must be at or above 2.5.

Major	**Course Requirements:**	**11 credits**
MTH 235	Calculus with Analytic Geometry II	4
MTH 236	Calculus with Analytic Geometry III	4
MTH 250	Linear Algebra	3

Supporting Course Requirement:		**4 credits**
(Choose 1 of the following 2):		
CIS 276	Introduction to C/C++ Programming, or	4
MTH 164	The Computer in Mathematics – C/C++	4

Professional Education Course Requirements: 9 credits		
EDU 224	Introduction to Education	3
(Choose 2 of the following 3):		
EDU 234	Introduction to Technology for Teachers	3
EDU 244	Students With Disabilities in Schools	3
PSY 271	Educational Psychology	3

General Education Course Requirements: 40 credits Required Courses: 31 credits		
ENG 101	Composition I	3
ENG 103	Composition II	3
SPH 131	Fundamentals of Communication	3
BIO 103	Introductory Life Science, or,	
BIO 106	Environmental Science	3
MTH 135	Calculus with Analytic Geometry I	5
PHY 215	Mechanics, Wave Motion and Thermodynamics	5
PHL 255	Logic	3
PSY 170	General Psychology	3
PSY 225	Child Development	3

General Education Electives **9 credits***

Refer to General Education Core Curriculum (GECC) Course Listing on pages 35 to 36 to select courses in the following disciplines:

Humanities/Fine Arts: **6 credit hours**

Social & Behavioral Sciences (except Psychology): **3 credit hours**

**Please Note: To meet the General Education Elective requirement, three credit hours must be associated with a non-western culture course (# = indicates a non-western course).*

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

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 & 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 (BS) 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 (AS) degree. Although students completing an AS 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 helps to provide students with more balanced semester course loads during their junior and senior years.

A.E.S. General Education Core Requirements: 22 credits

NOTE: The Associate in Engineering Science (A.E.S.) requires 22 general education credits. 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. Social & Behavioral Sciences/ Humanities & Fine Arts: 9 credits

Students are encouraged to complete a two-course sequence in either the Social and Behavioral Sciences or the Humanities and Fine Arts categories. (Please see page 35 for complete list of General Education Core Curriculum - IAI approved courses for these areas.)

Students who plan on majoring in Industrial Engineering are required to take:
ECO 111- Principles of Economics: Micro (IAI: S3 902).
ECO-111 is permissible, but not required, for all other engineering majors.
Please note: students are required to select 1 course that emphasizes non-Western cultures (# after course listing = Non-Western)

A.E.S. Physical Science: 4 credits

CHM 120 – General Chemistry I 4

A.E.S. Engineering Specialty Courses: 32 Credits

The following courses are required for all students seeking the AES degree, regardless of the specific major branch of engineering desired:

A.E.S. Calculus-based Physics: 10 credits

PHY 215 Mechanics, Wave Motion, and Thermodynamics 5
PHY 225 Electricity, Magnetism, Light, and Modern Physics 5

A.E.S. Mathematics: 20 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
MTH 240 Differential Equations 3
MTH 164 The Computer in Mathematics, C/C++ 4

A.E.S. Engineering & Technology: 2 credits
EGR 101 – Introduction to Engineering 2

A.E.S. Engineering Electives 11 – 13 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) - 13 credits
- Electrical/Computer Engineering (EE) – 11 credits
- Industrial Engineering (IE) – 12 credits
- Chemical Engineering (ChE) – 12 credits
- Mechanical Engineering (ME) – 13 credits

Course	Course Title	Credits	Engineering Discipline
EGR 135	Engineering Graphics	4	CE ME
EGR 206*	Statics	3	CE IE ME
EGR 207*	Dynamics	3	CE IE ME
EGR 221*	Elementary Mechanics of Deformable Bodies	3	CE IE ME
EGR 231*	Engineering Circuit Analysis	3	EE
EET 135	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	4	ChE
CHM 230	Organic Chemistry II	4	ChE

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

Associate of Science Degree with Emphasis in Agriculture

Degree Conferred: Associate of Science Program and Information Contact: Sciences Division (815) 921-3471

Program overview:
The Associate of Science 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 relationship 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: University of Illinois-Champaign, Southern Illinois University, Illinois State University, and 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 and
- Education
- Animal Science
- Crop Science
- Food Science and Human Nutrition
- Horticulture
- Human Development and Family Studies
- Natural Resources and Environmental Sciences
- Technical Systems Management

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. A few colleges/universities may do a course-by-course examination of work from Rock Valley College, and expect students to complete some general education courses at their institution. 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 senior institution.

Transferring from RVC
The Transfer 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 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 Advising and Personal Counseling Center, (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 are available in various department offices and/or on the college Web site.

4. Visit the Transfer 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; 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 Transfer Office Web page and on EAGLE/Angel.

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 RVC transcript to the transfer institution via Online Services at www.rockvalleycollege.edu/onlineservices. Request transcript to be sent after each semester there is a grade posted at RVC.

Baccalaureate completion 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. Students may contact these institutions for more information about how they can finish their degree without leaving the Rock Valley College district. Call the Transfer Office at (815) 921-4116 for more information.

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

George Williams College- Aurora University
350 Constance Blvd.
Williams Bay, WI 53191 (262) 245-8587
www.aurora.edu/gwc
- Business
- Recreation
- Special Education

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

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

Indiana Wesleyan University
1900 West 50th Street
Baccalaureate degree completion programs for the Adult Learner
Marion, Indiana 46953-9393
www.indwes.edu/bachelorcompletion
(866)-IWU-4-YOU (866-498-4968)
- Nursing
- Addictions Counseling
- Criminal Justice
- Business Administration
- Management
- Marketing
- Accounting
- Business Information Systems
- General Studies
- Biblical Studies

Judson College
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
www.cc.kaplan.edu
Information Technology – Network Administration
Business

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

National-Louis University
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

TRANSFER DEGREES

Northern Illinois University–DeKalb, IL
www.niu.edu/offcampusacademics • (866) 885-1239
- 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

In addition, a Business Administration bachelor degree is offered at NIU-Rockford on State Street. Call (800) 892-3050 for more information.

Palmer College of Chiropractic
Davenport, IA • (800) 722-3648
- Bachelor of Science in General Science

Rasmussen College
6000 E. State Street, Fourth Floor
Rockford, IL 61108
www.Rasmussed.edu
(815) 316-4800
Online or On-Campus
– Business Administration

Rockford College
Rockford, IL • (815) 226-4000
- Bachelor of Arts
- Bachelor of Fine Arts
- Bachelor of Science in Nursing
- Bachelor of Science

Saint Anthony College of Nursing
Rockford, IL • (815) 395-5091
- Bachelor of Science in Nursing

Saint Leo University/Online Campus
Florida • (888) 622-7344
- Accounting
- Business Administration
- Computer Information Systems

Southern Illinois University at Carbondale
Department of Aviation Management and Flight
College of Applied Sciences and Arts
Mailcode 6623
Carbondale, IL 62901-6623
(618) 453-8898 or (618) 453-1144
- Aviation Management

The University of Phoenix/Online Campus
www.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)
510 Devonshire, Suite H
Champaign, IL 61820 • (866) 896-3939
gcadvisor@uillinois.edu
- Bachelors of Business Administration (BBA)
- Bachelors of Nursing (BSN)

University of Illinois – Springfield
www.uis.edu
Dual Admission
2+2 Agreement Opportunities
- Bachelor of Science – Computer Science (A.A.S 2+2 agreement)
- Online Bachelor Degrees in:
  - English
  - History
  - Economics
  - Liberal Studies
  - Business Administration

Upper Iowa University - UIU Rockford
www.uiu.edu/transfer/rockvalley
(800) 553-4150
1161 Tebala Blvd
Rockford, IL 61108
Phone: 815-332-1414
E-mail: rockford@uiu.edu
- Course-to-course Articulation Agreement

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

General Studies Degree

Requirements for the Associate in General Studies Degree #0100

The program leading to the General Studies degree is neither primarily baccalaureate (transfer) oriented nor primarily occupational oriented. 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 Associate 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 science course numbered 100 or 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), CIS 202 (Introduction to Business Computer Systems).

B. A minimum of 15 semester credits in one of the following areas of concentration:

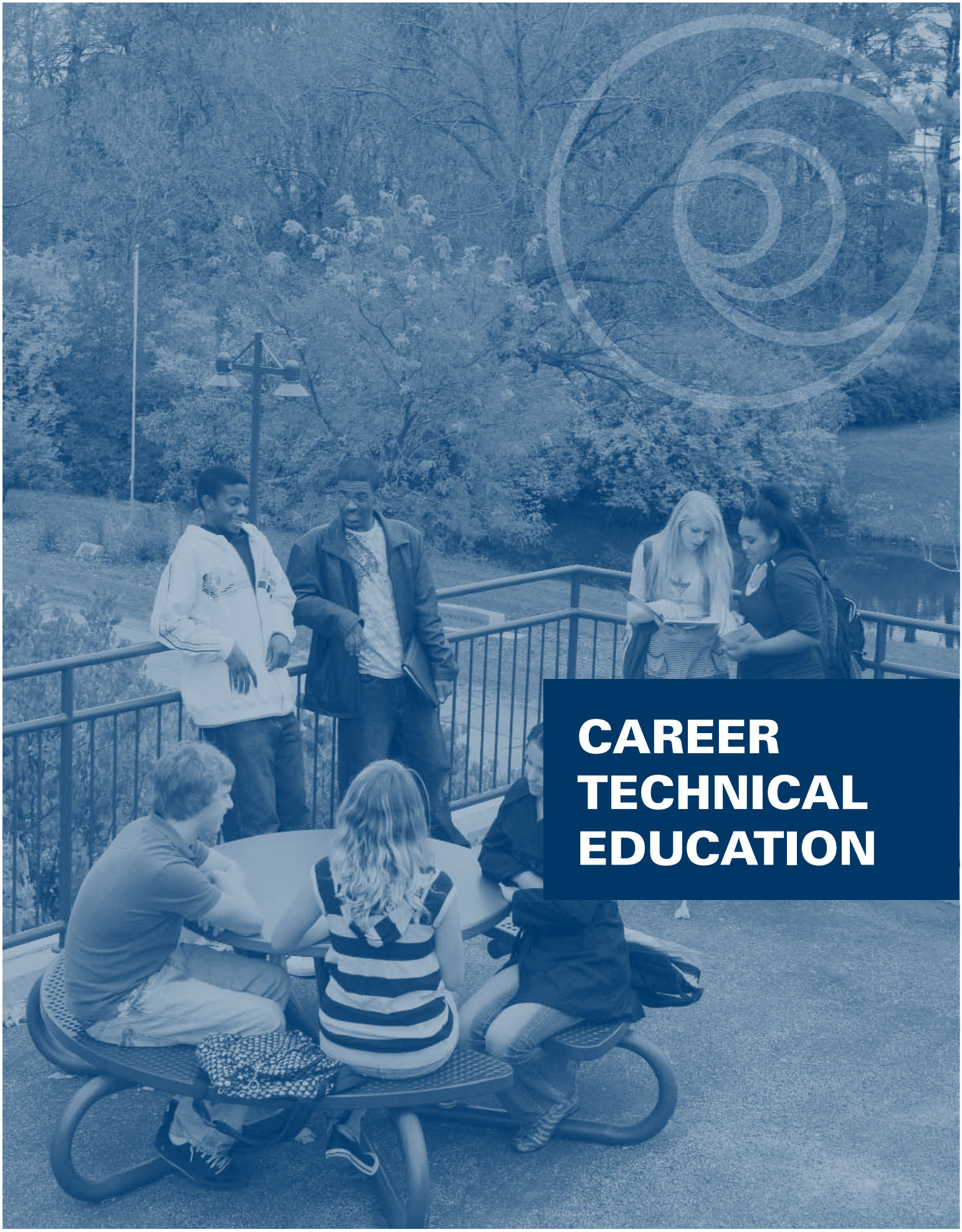
- Business – All courses in the Business Division.
- Composition and Literature – All courses numbered 100 to 299.
- Computers and Information Systems – All courses.
- Humanities – All courses in art, music, literature, philosophy, THE 133, HUM 111, HUM 112, HUM 114, HUM 115, and SPH 202.
- Life/Physical Sciences – All courses in the Life and Physical Sciences divisions.
- 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.

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 Associate Vice President of Academic Affairs.

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

Career Technical Education Programs

Rock Valley College has developed career programs in response to employment needs of the college 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. Many of the Career Programs transfer in whole or in part to some universities. Refer to the specific program degree and certificate requirements in this section. Students intending to transfer to a four year institution should consult an academic advisor.

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 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 hours of credits and students will be prepared to:

- Communicate effectively
- Demonstrate competency in critical thinking
- Respect and work effectively with persons of diverse backgrounds and abilities
- Demonstrate the behaviors of ethical and socially responsible citizens
- Demonstrate personal wellness

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, excluding certificate level courses so indicated under "Course Descriptions," can be used toward the 64 semester credits.
2. A maximum of three semester credits may be earned in Fitness, Wellness & Sport physical education activity classes (numbered 100-199).
3. A minimum grade point average of 2.0 ("C" average on a 4.0 scale).
4. Effective with 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).
6. Successful completion of at least 20 semester credits at Rock Valley College.

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 a certificate include the following:

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 credit hours without additional tuition and fee charges.

CAREER TECHNICAL EDUCATION

Career & Technical Education	Associate in Applied Science Degree (AAS) Credit Hours	Certificate Credit Hours	Program Requirements on Page
Accounting A.A.S.	67		49
• Accounting / Income Tax Fundamentals		8	49
• Professional Bookkeeper Certificate		25	49
Automotive Service Careers **Automotive Service Technology A.A.S. Option A** **Automotive Service Technology A.A.S. Option B**	 66 66		50 50 50
• Automotive Technician		51	50
• Automotive Heating and Air Conditioning		15	51
• Automotive Suspension and Brakes		11	51
• Automotive Electrical		11	51
• Automotive Engine		9	51
• Automotive Engine Performance		19	51
• Automotive Transmission		15	51
Aviation Maintenance Technology A.A.S.	82		52
• Aviation Maintenance		76	52
• Airframe Technician		47	53
• Powerplant Technician		46	53
Building Construction Management A.A.S.	65		54
• Construction Management		23	54
• Building Construction		36	54
• Construction Administrative Assistant		15	54
• Construction Methods & Materials		15	54
• Residential Construction		12	54
• Basic Construction		15	54
Business Administration A.A.S.	65		55
• Business Fundamentals		29	56
• Management		29	56
• Marketing		21	56
• Entrepreneurship		29	56
COMPUTER CAREERS			
Computers and Information Systems A.A.S.	65		57
• C/C++ Programming		15	57
• Visual Basic Programming		15	57
Networking Specialist A.A.S.	64		58
Cisco Networking A.A.S.	64		59
• Cisco Networking		19	59
• Cisco Advanced Networking		12	59
Data Assurance and IT Security A.A.S.	64		60
• Voice Over IP Certificates		27	60
• Cisco CCNA Security Certificate		10	60
• Cisco CCNP Security Certificate		22	60
Criminal Justice A.A.S.	69		61
Dental Hygiene A.A.S.	81		62
Early Childhood Education	65		63
• Child Care Worker		35	63
• Child Care Aide		11	63
• Child Care – Nanny		33	63
Electronic Engineering Technology A.A.S.	66		64
Electronics Certificate		50	64
Basic Electronics Certificate		27	64

CAREER TECHNICAL EDUCATION

Career & Technical Education	Associate in Applied Science Degree (AAS) Credit Hours	Certificate Credit Hours	Program Requirements on Page
Fire Science A.A.S.	64		66
Fire Service		27	66
Firefighting Tactics and Fire Equipment		9	67
Fire Officer I		15	67
Fire Protection and Prevention		6	67
Fire Protection and Tactics		6	67
Fire Tactics		6	67
Emergency Medical Technician - Basic		9	67
Fitness, Wellness & Sport A.A.S.	64		68
Coaching Education		24	69
Personal Training		24	69
Fluid Power Technology Certificate		12	69
GRAPHIC ARTS CAREERS			70
Graphic Arts Technology A.A.S.	67		70
Prepress		23	70
Graphic Design A.A.S.	67		71
Cross Media Production A.A.S.	67		71
Human Services A.A.S.	66		72
Substance Abuse Counseling		34	72
Industrial Computer Systems A.A.S.	65		73
Manufacturing Engineering Technology A.A.S.	65		74
CAD		15	74
CNC		18	74
Basic Quality		18	74
Certified Manufacturing Associate		13	74
MASS COMMUNICATION PROGRAM -			
Media Production Specialist Certificate	26		75
NURSING PROGRAMS			
Associate Degree Nursing A.A.S.	70		76
Hybrid Online Nursing Degree Program A.A.S.	71		78
Nursing Aide Certificate		7	79
Practical Nursing		41	79
Office Professional Specialist A.A.S.	65		80
Administrative Assistant		34	81
Medical Coding		15	81
MOS/Word		8	81
MOS/Excel		11	81
MOS/PowerPoint		11	81
MOS/Access		11	81
Paraprofessional Educator A.A.S.	65		82
Paraprofessional Education		34	82
Respiratory Care Program A.A.S.	71		83
Surgical Technology Certificate		40	84
Sustainable Energy Systems A.A.S.	66		86
Sustainable Energy Systems Certificate (ICCB approval pending)		47	87
Basic Sustainable Energy Systems Certificate (ICCB approval pending)		25	87
Web Information Technology A.A.S.	66		88
Welding Certificate		24	89
APPRENTICESHIP PROGRAMS			
Electrician Apprenticeship A.A.S.	64		90
Electrician Apprenticeship		42	90
Sheet Metal Apprenticeship (Five Years)		40	91
Tool and Die/Precision Machinist Certificate (Four Years)		28	91

ACCOUNTING #2000

Degree conferred: Associate in Applied Science – 67 credits

Program contact: Division of Business/Computers & Information Systems (815) 921-3101

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 and employment

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

Certificates available

– Accounting/Income Tax Fundamentals
– Professional Bookkeeper

Accounting Course Requirements: 48 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	3
BUS 101	Introduction to Business	3
BUS 223	Business Statistics	3
BUS 200	Legal Environment in Business, or,	
BUS 201	Business Law	3
BUS 203	Economics for Business	3
BUS 279	Principles of Finance	3

General Education Course Requirements: 19 credits

Requirements: 16 credits

ENG 101	Composition I	3
ENG 105	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

Electives: 3 credits

Select courses with at least two different prefixes in the Liberal Arts and Sciences areas (examples: ART, BIO, ECO, ENG, MTH, SOC, etc.) to fulfill General Education Core Curriculum requirement.

Accounting Program Electives Courses

ATG 106	Intro to Accounting Debits & Credits	1
ATG 107	Intro to Accounting Special Journals	1
ATG 291	Internship Accounting	1-6
ATG 295	Independent Study in Accounting	1-6

Certificates

NOTE: BUS 103 or 223 is recommended, but not required, for the following certificates:

Accounting/Income Tax Fundamentals Certificate/2011 8 credits

ATG 110	Financial Accounting	4
ATG 218	Federal Income Tax	4

Professional Bookkeeper/2020 25 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	3
CIS 102	Introduction to Computers and Information Systems	3
PCI 106	Microcomputer Applications/ Windows Based	4

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

AUTOMOTIVE SERVICE TECHNOLOGY A.A.S. #7100

Degree conferred: Associate in Applied Science - 66 credits

Program contact: Division of Technical Programs, (815) 921-3000

Program overview

Graduates of this 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 and 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 can use their degree in partial fulfillment of a baccalaureate degree at select universities.

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	Composition II, or,	
ENG 105	Business Communications, or,	
ENG 110	Introductory Technical Writing, or,	
SPH 131	Fundamentals of Speech	3
MTH 115	General Education Mathematics, or,	
MTH 120	College Algebra,	3
CIS 102	Intro to Computers & Info 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	Composition II, or,	
ENG 105	Business Communications, or,	
ENG 110	Introductory Technical Writing, or,	
SPH 131	Fundamentals of Speech	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
MGT 273	Small Business Management	3
MTH 120	College Algebra	3

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

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 and 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 and 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 pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

AVIATION MAINTENANCE TECHNOLOGY A.A.S. #7200

Degree conferred: Associate in Applied Science – 82 credits

Program contacts: Division of Technical Programs Office, (815) 921-3000 or Aviation Maintenance Technology program, (815) 921-3014

www.rockvalleycollege.edu/aviation

Program overview

Federally-licensed graduates of this 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 and 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.

Previous College Credit

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

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 Speech or	
ENG 103	Composition II	3

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 pre- or co-requisite may be required for some course. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

BUILDING CONSTRUCTION MANAGMENT #7000

Degree conferred: Associate in Applied Science – 65 credits

Transfer to select universities

Program contact: Division of Engineering and Technology, (815) 921-3101
www.rockvalleycollege.edu/engineering

Program overview
Graduates of the program organize, lead, and manage the resources, materials, and the processes related to building construction, both commercial and residential.

Work and 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.

Building Construction Course Requirements: 47 credits

BCM 100	Intro to Construction Management	3
BCM 104	Construction Blueprint Reading	3
BCM 117	Construction Materials & Methods	3
ATG 106	Acct. Debits & Credits	1
ATG 107	Acct. 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 Bldg. Const	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: 9 credits

ENG 101	Composition I	3
ENG 103	Composition II, or,	
ENG 105	Business Communication, or,	
ENG 110	Introductory Technical Writing, or,	
SPH 131	Fundamentals of Communication	3
MTH 125	Plane Trigonometry, (3) or,	
MTH 132	Precalculus Mathematics (5), or,	
MTH 100	Technical Mathematics (5)	3-5

Electives: Select 9 credits from the following as needed: 9 credits

CIS 102	Introduction to Computers and Information Systems
	Mathematics course (MTH)
	Science course
	Humanities course (HUM)
	Fitness, Wellness & Sport course (FWS)

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

BCM - Electives:

BCM 168	Construction Internship	1- 6
BCM 218	Construction Surveying II	3
BCM 258	Case Study in Const. Mgt	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
BUS 106	Accounting Debits & Credits	1
BUS 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

Mini-Certificates

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 260	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 pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

BUSINESS ADMINISTRATION #2100

Degree conferred: Associate in Applied Science – 65 credits

Program contact: Division of Business/Computers & Information Systems (815) 921-3101

Program overview
Graduates of this 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 and 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 the Business Associate 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	Business Mathematics, or,	
BUS 223	Business Statistics	3
BUS 200	Legal Environment in Business, or,	
BUS 201	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	Intro to Organizational Behavior	3

Electives – 3 credits
Any Business Division course with prefix ATG, BUS, MGT, MKT, OFF, PCI

Option B: Management 9 credits

Note: This option requires BUS 223 Business Statistics instead of BUS103 Business Mathematics.

BUS 170	Intro 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 credits
Select a course with prefix ATG, BUS, MGT, MKT, OFF, 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 Associate 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 Associate Dean.

General Education Course Requirements: 18 credits

CIS 102	Introduction to Computer Systems	3
ENG 101	Composition I	3
ENG 105	Business Communications	3
SPH 131	Fundamentals of Communication	3

Electives: 6 credits

Students must select courses with at least two different prefixes in the General Education Core Curriculum areas (Example: ART, BIO, ECO, ENG, MTH, SOC, etc.) to fulfill general education elective requirements.

CAREER TECHNICAL EDUCATION

Business Program Elective Courses:

BUS 207	The Virtual Company	4
BUS 295	Independent Study in Business Administration	1-6
BUS 296	Special Topics in Business Administration	1-4
MGT 273	Small Business Management	3
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	Business Mathematics, or,	
BUS 223	Business Statistics	3
BUS 170	Intro to Organizational Behavior	3
BUS 200	Legal Environment in Business, or,	
BUS 201	Business Law	3
MGT 270	Principles of Management	3
MKT 260	Principles of Marketing	3
PCI 106	Microcomputer Applications/Windows Based	4
ENG 105	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 273	Small Business Management	3
MGT 274	Leadership	3
MKT 260	Principles of Marketing	3
MKT 288	Customer Relations	3
PCI 106	Microcomputer Applications/ Windows Based	4
ENG 105	Business Communications	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
ENG 105	Business Communications	3
SPH 131	Fundamentals of Communications	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
ENG 105	Business Communications	3

(*MGT 274 can replace MKT 260 with Chair approval)

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

Computer Careers

COMPUTERS AND INFORMATION SYSTEMS #2700

Degree conferred: Associate in Applied Science - 65 credits

Program contact: Division of Business/Computers & Information Systems/Engineering & Technology (815) 921-3101

Program overview

Graduates of this 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 program offers courses that can be successfully transferred to baccalaureate institutions.

Work and 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.

The Business/CIS/EAT Division also offers degrees in Web site development, networking, and PC skills. For information on these A.A.S. degrees, please see the Web Information Technology, the Personal Computer Technical Specialist, and Office Professional programs elsewhere in this catalog.

Certificates available
– C/C++ Programming
– Visual Basic Programming

Required for both C/C++ and Visual Basic Options — 24 credits

ATG 110	Financial Accounting	4
BUS 101	Introduction to Business	3
CIS 102	Introduction to Computers and Information Systems	3
CIS 251	Systems Analysis and Design	3
CIS 254	Database Programming	4
PCT 110	Network Essentials	3
WEB 101	Programming Related to the Internet	4

Choose one of the following areas of specialization: — 16 credits:

1. C/C++ Programming Specialization — 16 credits

CIS 276	Introduction to C/C++ Programming	4
CIS 277	Advanced C/C++ Programming	4
CIS 279	Visual C/C++ Programming	4
CIS 180	Introduction to Visual Basic Programming, or,	
CIS 240	Introduction to Java Programming	4

2. Visual Basic Specialization — 16 credits

CIS 180	Introduction to Visual Basic Programming	4
CIS 181	Advanced Visual Basic Programming	4
CIS 184	Visual Basic Programming III	4
CIS 276	Introduction to C/C++ Programming, or,	
CIS 240	Introduction to Java Programming	4

General Education Course Requirements: — 15 credits

ENG 101	Composition I	3
ENG 103	Composition II, or,	
ENG 105	Business Communication, or,	
ENG 110	Introductory Technical Writing	3
SPH 131	Fundamentals of Speech, or	
SPH 141	Business and Professional Speech	3
MTH 120	College Algebra, or,	
MTH 160	Topics from Finite Mathematics, or,	
MTH 220	Elements of Statistics	3
BUS 170	Intro to Organizational Behavior, or,	
PSY 170	General Psychology, or,	
SOC 190	Introduction to Sociology	3

CIS Electives: — 10 credits

With the approval of the CIS Chair, select courses with any of the following prefixes: CIS, PCT, or WEB.

Certificates

C/C++ Programming/2735 — 15 credits

CIS 251	Systems Analysis and Design	3
CIS 276	Introduction to C/C++ Programming	4
CIS 277	Advanced C/C++ Programming	4
CIS 279	Visual C/C++ Programming	4

Visual Basic Programming/2745 — 15 credits

CIS 180	Introduction to Visual Basic Programming	4
CIS 181	Advanced Visual Basic Programming	4
CIS 184	Visual Basic Programming III	4
CIS 251	Systems Analysis and Design	3

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

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. Networking Specialist A.A.S.
2. Cisco Networking A.A.S. (also has two certificate-level programs) and
3. Data Assurance and IT Security A.A.S. (also has three certificate-level programs)

The Business/CIS/EAT Division also offers degrees in Web site development and programming. For information on these A.A.S. degrees, please see the Web Information Technology and the Computer and Information Systems programs elsewhere in this section.

NETWORKING SPECIALIST (MICROSOFT) #3700

Degree conferred: Associate in Applied Science – 64 credits

Program contact: Division of Business/Computers & Information Systems, (815) 921-3101

Program overview

Graduates of this program are prepared for professional careers in the computing network field. The program takes students from the beginning architectural design process through installation, configuration, administration and tuning of microcomputer network environments.

Work and employment

Successful graduates have found work as network support specialists, software support specialists, network administrators, network specialists, help desk/network support personnel, and telecommunications specialists.

PC Technical Specialist

Course Requirements		**49 credits**
Required for all three degrees		10 credits
CIS 102	Intro to Computers & Info Systems	3
WEB 101	Programming Related to the Internet	4
PCT 270	Introduction to Unix/Linux	3
PCT	Electives	11 credits

With the approval of the CIS Chair, select courses with any of the following prefixes: CIS, PCT, or WEB.

Networking Specialist (Microsoft)

Specialization		28 Credits
CIS 276	Introduction to C/C++ Programming	4
WEB 102	Advanced Programming Related to the Internet	4
PCT 262	Computer Service and Repair	3
PCT 120	Cisco Networking I	4
PCT 112	Windows Server Fundamentals	3
PCT 122	Cisco Networking II	4
PCT 290	Special Topics in Networking	3
EET 100	Introduction to Electronics	3

General Education Course Requirements		**15 credits**
ENG 101	Composition I	3
ENG 103	Composition II, or,	
ENG 105	Business Communication, or,	
ENG 110	Introductory Technical Writing	3
SPH 131	Fundamentals of Speech	3
MTH 120	College Algebra, or	
MTH 160	Topics from Finite Mathematics, or,	
MTH 220	Elements of Statistics	3
BUS 170	Intro to Organizational Behavior, or,	
PSY 170	General Psychology, or	
SOC 190	Introduction to Sociology	3

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CISCO NETWORKING #3750

Degree conferred: Associate in Applied Science – 64 credits

Program contact: Division of Business/Computers & Information Systems, (815) 921-3101

Program overview

Graduates of the program are prepared to obtain Cisco's CCNA certification.

Work and employment

Successful graduates have found work as network support specialists, software support specialists, network administrators, and network specialists among others.

Certificates available

– Cisco Networking – Cisco Advanced Networking

PC Technical Specialist
Course requirements 49 credits

Required for all three degrees 10 credits

CIS 102	Intro to Computers & Info Systems	3
WEB 101	Programming Related to the Internet	4
PCT 270	Introduction to Unix/Linux	3

PCT Electives 10 credits

With the approval of the CIS 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	Composition II, or,	
ENG 105	Business Communication, or,	
ENG 110	Introductory Technical Writing	3
SPH 131	Fundamentals of Speech	3
MTH 120	College Algebra, or	
MTH 160	Topics from Finite Mathematics, or,	
MTH 220	Elements of Statistics	3
BUS 170	Intro to Organizational Behavior, or,	
PSY 170	General Psychology, or,	
SOC 190	Introduction to Sociology	3

Certificates

Cisco Networking/3720 19 credits

CIS 102	Intro to Computers & Info 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

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

DATA ASSURANCE AND IT SECURITY #3775

Degree conferred: Associate in Applied Science – 64 credits

Program contact: Division of Business/Computers & Information Systems, (815) 921-3101

Program overview

Graduates of this 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 and 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.

Certificates available

Voice Over IP
Cisco CCNA Security Certificate
Cisco CCNP Security Certificate

PC Technical Specialist Course requirements 49 credits

Required for all three degrees. **10 credits**

CIS 102	Intro to Computers & Info Systems	3
WEB 101	Programming Related to the Internet	4
PCT 270	Introduction to Unix/Linux	3

PCT *Electives* **10 credits**

With the approval of the CIS Chair, select courses with any of the following prefixes: CIS, PCT, or WEB.

Area of specialization: 29 credits
Data Assurance and IT Security

PCT 112	Windows Server Fundamentals	
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,	
ENG 105	Business Communication, or,	
ENG 110	Introductory Technical Writing	3
SPH 131	Fundamentals of Speech	3
MTH 120	College Algebra, or,	
MTH 160	Topics from Finite Mathematics, or,	
MTH 220	Elements of Statistics	3
BUS 170	Intro to Organizational Behavior, or,	
PSY 170	General Psychology, or,	
SOC 190	Introduction to Sociology	3

Certificates

Voice Over IP 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 (Asterisk)	3

Cisco CCNA Security Certificate/3776 10 credits

PCT 130	Intro 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	Intro 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 pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CRIMINAL JUSTICE #7800

Degree conferred: Associate in Applied Science – 69 credits

Limited transferability

Program contact: Division of Social Science and Humanities, (815) 921-3317

Program overview

Graduates of this program meet the minimum educational requirements necessary to complete for sworn positions 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 and 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 the Division of Social Science and Humanities (815) 921-3317.

Criminal Justice Course Requirements: 45 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 and Information Systems	3
HSR 140	Survey of Psychiatric Rehabilitation	3

Electives: Select 18 credits from the following:

+CRM 101	Introduction to Law Enforcement	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 Communications	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 pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

DENTAL HYGIENE #5100

Degree conferred: Associate in Applied Science – 81 credits

Limited transferability

Program contact: Dental Hygiene program office,
(815) 921-3235
www.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 and 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 15 to be reviewed for admission for the fall term. 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 (www.rockvalleycollege.edu) for additional dental hygiene admission policies.

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	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	4
DNT 110	Nutrition and BioChemistry	2

TERM II, SPRING (14 credits)

DNT 112	Clinical Dental Hygiene I	2
DNT 113	Dental Hygiene Theory I	2
DNT 114	General and Oral Pathology	3
DNT 116	Dental Radiology	3
DNT 118	Dental Pharmacology	2
DNT 120	Introduction to Periodontics I	2

TERM III, SUMMER (6 credits)

DNT 210	Dental Materials	3
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 and Practice Management	2
DNT 220	Community Dental Health	3

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 pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

EARLY CHILDHOOD EDUCATION #5500

(This Program was formerly known as Child Care and Development)

Degree conferred: Associate in Applied Science – 65 credits

Program contact: Early Childhood Education Chair, (815) 921-3378

Program overview

Graduates of the program are well-versed in child development, nutrition, exercise, developing age-appropriate curriculum and other facets of child care. They will be ready to direct or teach at a day care center.

Work and employment

Opportunities exist in home-based care, day care centers, nursery schools, pre-schools, 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.

Enrollment in courses requires weekly field assignments as well as a complete medical examination, TB skin test, fingerprinting, and three written references.

Early Childhood Education Course Requirements: 41 credits

ECE 100	The Child Care Worker, or,	
ECE 200	Introduction to Early 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 203	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	Life-Span Developmental Psychology, or,	
SOC 190	Introduction to Sociology	3
SOC 299	Marriage and the Family	3
SPH 131	Fundamentals of Communication	3

Elective: Select 3 credits from the following course prefixes: CIS, HUM, Social Science, Mathematics, or Science electives.

Certificates

Child Care Worker/5501 35 credits

ECE 100	The Child Care Worker, or,	
ECE 200	Introduction to Early 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

Child Care Aide/5511 11 credits

ECE 100	The Child Care Worker, or,	
ECE 200	Introduction to Early Education	3
ECE 101	The Developing Child	5
ECE 105	Developing Techniques for Working with the Young Child	3

Child Care – Nanny/5502 33 credits

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 113	Infant and Toddler Curriculum	3
ECE 203	Curriculum Planning for the Young Child	3
ECE 208	Internship - Nanny Experience	3
ENG 101	Composition I	3
FWS 243	First Aid and General Safety	3
PSY 270	Life-Span Developmental Psychology, or,	
SOC 190	Introduction to Sociology	3
	Early Childhood Education Elective	3

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

ELECTRONIC ENGINEERING TECHNOLOGY #8400

Degree conferred: Associate in Applied Science – 66 credits

Program contact: Division of Engineering and Technology, (815) 921-3101
www.rockvalleycollege.edu/engineering

Program overview
Graduates of the 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 and employment
Successful graduates secure positions as test equipment designers, quality assurance and reliability specialists, sales and service professionals, telecom technicians, medical equipment experts, or as part of a manufacturing support team.

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 multi-meters.

Transfer opportunities
Graduates have the option to pursue a baccalaureate from Northern Illinois University and other select universities.

Certificates available:
- Electronics Certificate
- Basic Electronics Certificate

Electronic Engineering Course Requirements: 50 credits

Core Requirements: 44 credits

EET 125	Electronic Fabrications Skills	2
EET 135	Digital Electronics	4
EET 141	DC/AC Circuits & Electronics I	4
EET 142	DC/AC Circuits & Electronics II	4
EET 240	DC/AC Circuits & Electronics III	4
EET 251	Microcontrollers & Interfacing	4
EET 254	Robotics & Automated Systems	3
EET 282	Capstone Project	3
EET 298	EET Seminar	3
MET 111	CNC Machining	3
MET 100	Intro CAD & Blueprint Reading	3
MET 146	Hydraulics, Pneumatics, & PLCs	3
MET 162	Applied Physics	4

Electives: Select 6 credits from the following:

EET 105	Intro to Sustainable Energy	3
EET 168	Electronic Engineering Technology Internship	(1-6)
EET 219	Fundamentals of Electric Motors and Controls	3
EET 231	Transform Circuit Analysis	4
EET 239	Programmable Logic Controllers (PLC)s	3
EET 242	Sensors, Transducers, and Signal Conditioning	3
EET 245	Control Systems	3
EET 261	Advanced Microcontrollers	3
EET 265	Audio Electronic Systems	3
EET 275	Wireless Electronics	3
EET 285	Introduction to Digital Signal Processing	3
EET 299	Special Topics in Electronic Engineering Technology	(1-6)
EGR 101	Introduction to Engineering	2

General Education Course Requirements: 16 credits
Required General Education: 9 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	Precalculus Mathematics (5), or	
MTH 100	Technical Mathematics (5)	3-5

General Education Electives: 7 credits
Science Electives:
Select 4 credits from the following:

PHY 201	Mechanics and Heat	4
CHM 105	Foundations in Chemistry	4
CHM 120	General Chemistry I	4
BIO 103	Introductory Life Science (3), and	
BIO 104	Intro Life Science Laboratory (1)	4
BIO 106	Environmental Science (3), and	
BIO 107	Environmental Science Lab (1)	4

Liberal Arts GECC Elective:
Select 3 credits from the following:
(Example: ART, ECO, ENG, SOC, etc.)

Certificates

Electronics Certificate EET/8401 50 credits

EET 125	Electronic Fabrication Skills	2
EET 135	Digital Electronics	4
EET 141	DC/AC Circuits & Electronics I	4
EET 142	DC/AC Circuits & Electronics II	4
EET 240	DC/AC Circuits & Electronics III	4
EET 251	Microcontrollers & Interfacing	4
EET 254	Robotics & Automated Systems	3
EET 282	Capstone Project	3
EET 298	EET Seminar	3
EET	Elective	3
EET	Elective	3
MET 111	CNC Machining	3
MET 100	Intro CAD & Blueprint Reading	3
MET 146	Hydraulics, Pneumatics, & 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 & Electronics I	4
EET 142	DC/AC Circuits & Electronics II	4
MET 111	CNC Machining	3
MET 100	Intro CAD & Blueprint Reading	3
MET 146	Hydraulics, Pneumatics, & PLCs	3
MET 162	Applied Physics	4

Second Degree Requirements for the Electronic Engineering Today and Sustainable Energy Systems Programs

The degree EET and SES degree programs are very similar. Consequently, obtaining a second degree is an attractive option to many graduates. Specifically, a graduate of the EET program may desire to obtain a second degree in SES. Conversely, a graduate of the SES program may desire to obtain a second degree in EET. ***Fundamentally, a minimum of 15 credits must be taken additionally.***

A graduate of the EET program (8400) who desires to also receive an SES program degree (8600) must take:

EET 105 Intro to Sustainable Energy Concepts 3
(could have been used as an EET elective previously)
CHM 105 Foundations in Chemistry for Non-Science Majors, or,
CHM 120 General Chemistry I..... 4
(could have been used as an EET science elective previously)
EET 107 Intro 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 credits additionally 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 111 CNC Machine Setup/Operation/Programming 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 credits additionally 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 pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

FIRE SCIENCE #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.

Program overview

Few careers may be as physically challenging—but deeply rewarding as fire service. The tragic events of September 11, 2001 have inspired many college students to enter into the fire service field and has renewed a great interest in the Fire Science Program. Ever changing technologies and firefighting tactics make the fire service a dynamic and exciting career. The Fire Science program at RVC offers two learning options for students:

- Non-internship option: Intended for experienced firefighters who wish to earn a college degree.
- Internship option: Aimed at college students with no firefighting experience, this option includes classroom instruction, firefighting training at a special training facility, and an internship experience with a fire department.

Work and employment

Graduates have secured positions in fire protection and prevention, firefighting, dispatch/communications, fire equipment manufacturing and sales, and volunteer fire protection. With additional training, graduates can enter the specialties of fire inspection and insurance investigation. Since job opportunities can be competitive, students should have the flexibility to relocate if necessary.

More about the program

Hiring practices for fire service are mandated by civil service legislation. Education is not a guarantee for employment, though educational points are awarded in Illinois for candidates who successfully complete the civil service process and possess an A.A.S. degree in Fire Science.

Certificates available:

- Firefighting Tactics and Fire Equipment
- Fire Service
- Fire Officer I
- Fire Tactics
- Fire Protection and Prevention
- Fire Protection and Tactics
- Emergency Medical Technician – Basic

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 - Basic	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

Elective General Education Courses: 9 credits

Select from the following area(s):

CIS 102; Humanities; Social Science; Mathematics; Physical Science; Life Science; Fitness, Wellness and Sport; or English.

Certificates

Fire Service/7501 27 credits

FRE 101	Introduction to Fire Protection	3
FRE 102	Fire Apparatus Engineer (FAE)	3
FRE 103	Hazardous Materials Operations	3
FRE 112	Vehicle/Machinery Rescue Operations	3
FRE 206	Management I	3
FRE 207	Management II	3
FRE 208	Fire Prevention Principles	3
FRE 210	Fire Investigation	3
FRE 216	Tactics and Strategy I	3

Firefighting Tactics & Fire Equipment/7523 **9 credits**

FRE 102	Fire Apparatus Engineer (FAE)	3
FRE 216	Tactics and Strategy I	3
FRE 217	Tactics and Strategy II	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 Protection & Prevention/7521 **6 credits**

FRE 101	Introduction to Fire Protection	3
FRE 208	Fire Prevention Principles	3

Fire Protection & Tactics/7518 **6 credits**

FRE 101	Introduction to Fire Protection	3
FRE 216	Tactics and Strategy I	3

Fire Tactics/7515 **6 credits**

FRE 207	Management II	3
FRE 216	Tactics and Strategy I	3

Emergency Medical Technician – Basic/7535 **9 credits**

FRE 223	Emergency Medical Technician-Basic	9

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

FITNESS, WELLNESS AND SPORT #9000

Degree conferred: Associate in Applied Science – 64 credits

Program contact: Division of Math, Human Services, & Fitness, Wellness, and Sport, (815) 921-3412
Web Link for More Information:
www.rockvalleycollege.edu/Academics/FWS/index.cmf

Program overview: The Fitness, Wellness, & Sport degree is designed to provide the first two years of a four year baccalaureate program in sport and recreation management and exercise science. Majors in the career paths related to Fitness, Wellness, & Sport areas study anatomy and physiology, kinesiology, nutrition, methods of teaching and coaching, motor learning, sports psychology, sport sociology, and the history of sport and physical education.

Work and employment: Students who pursue a degree in Fitness, Wellness, & Sport will have the opportunity for employment in elementary or secondary school districts, sport and fitness organizations, professional sport teams, university-based sport and fitness programs, hospitals, and community-based health promotion.

Transfer opportunities
Graduates of the program have the option to transfer their degree to various universities to pursue a bachelor degree in Kinesiology, Physical Education, Sport Management, or Exercise/Sport Science.

Two program options
The Fitness, Wellness, & Sport program offers students a choice of two tracks based on their educational and career interests – 1) Exercise Science, and 2) Sport Management. Students should review each option and consult with the chairperson or faculty of the FWS division for more information.

Certificates also available
There are two 24-credit certificate options in Health and Physical Education, the Coaching Education and Personal Training Certificates. The Coaching Education certificate prepares students to become athletic coaching specialists and provides them with the opportunity to obtain the American Sport Education Program (ASEP) coaching certification. The Personal Training certificate is designed to prepare students to complete the National Strength & Conditioning Association (NSCA) certification exams. Depending on the job sought in the field of fitness, wellness, and sport, 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 so that students have the option either to pursue employment after completing the certificate or to continue their education by transferring to a baccalaureate program.

General Education Course Requirements 15 Credits

ENG 101	Composition I	3
ENG 103	Composition II	3
MTH 115	General Education Math, or,	
MTH 120	College Algebra	3
SPH 131	Fundamentals of Communication	3
PSY 170	General Psychology	3

FWS Core Course Requirements 9 Credits

FWS 255	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

Track 1: Exercise Science 37 Credits

CHM 110	General, Organic and Biochemistry I	4
CHM 210	General, Organic and Biochemistry II	4
BIO 281	Human Anatomy & Physiology I	4
BIO 282	Human Anatomy and Physiology II	4
FWS 231	Contemporary Health Issues, or,	
FWS 235	Drug & Alcohol Education	3
FWS 237	Nutrition for Optimal Living	3
FWS 243	First Aid & 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 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	Principles of Aerobic Conditioning	1
FWS 126	Beginning Weight Lifting	1
FWS 127	Advanced Weight Lifting	2

Track 2: Sport Management

CHM 105	Foundations in Chemistry for Non-Science Majors	4
ECO 110	Principles of Economics: Macro	3
ECO 111	Principles of Economics: Micro	3
BIO 103	Introduction to Life Science	3
BIO 104	Introduction to Life Science (Lab)	1
FWS 250	Introduction to Sport Management	
FWS 243	First Aid & General Safety, or,	
FWS 254	ASEP Sport First Aid & 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 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	Principles of Aerobic 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 126	Beginning Weight Lifting, or,	
FWS 121	Principles of Aerobic Conditioning	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 & Appls.	3
FWS 267	Personal Training II-Concepts & Appls.	3
FWS 243	First Aid and General Safety	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	Principles of Aerobic Conditioning, or,	
FWS 126	Beginning Weight Lifting	1
FWS 127	Advanced Weight Lifting	2
FWS 275	Personal Training Internship	3

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

FLUID POWER TECHNOLOGY #7611

Certificate – 12 credits

Program contact: Division of Technical Programs, (815) 921-3000

Program overview

Graduates of this 12-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 and employment

Fluid Power opportunities exist in industry as well as in agriculture, aerospace, biomedical, and construction trades.

Fluid Power Certificate Requirements 12 credits

FLD 100	Introduction to Fluid Power	3
FLD 115	Hydraulic Components and Circuits	3
FLD 120	Fundamentals of Pneumatics	3
FLD 140	Fluid Power Circuits and Systems	3

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

Graphic Arts Career Programs

Degree conferred: Associate in Applied Science – 67 credits

Program contact: Division of Technical Programs, (815) 921-3000
www.rockvalleycollege.edu/engineering

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 there are 2,423 printing establishments that employ nearly 61,000 people. The annual sales of these companies total more than $8,270,000,000 (9/2006) .

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/Engineering and Technology, (815) 921-3101

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 and 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.

Graphic Arts Technology Core Requirements:
Required for each degree **28 credits**

GAT	101	Introduction to Graphic Arts 4
GAT	110	Introduction to Photoshop 2
GAT	115	Introduction to Illustrator 2
GAT	178	Intro to 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 3
MTH	115	General Education Mathematics, or,
MTH	120	College Algebra 3
ENG	103	Composition and Literature, or,
SPH	131	Fundamentals of Composition 3
BIO	106	Environmental Science, and(3)
BIO	107	Environmental Science Lab(1) 4
PSY	170	General Psychology, or
SOC	190	Introduction to Sociology 3

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 6
BUS	101	Introduction to Business, or,
MKT	260	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	Introduction to 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 pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.
Graphic Arts Career Programs

OPTION B: GRAPHIC DESIGN #8225

Degree conferred: Associate in Applied Science – 67 credits

Program contact: Division of Technical Programs,
(815) 921-3000
www.rockvalleycollege.edu/engineering

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 and employment

The Graphic Design program prepares students for entry-level positions such as graphic designer, graphic artist or production artist.

Graphic Arts Technology Core Requirements
Required for each degree — 28 credits

GAT 101	Introduction to Graphic Arts	4
GAT 110	Introduction to Photoshop	2
GAT 115	Introduction to Illustrator	2
GAT 178	Intro to 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	3
MTH 115	General Education Mathematics, or,	
MTH 120	College Algebra	3
ENG 103	Composition and Literature, or,	
SPH 131	Fundamentals of Composition	3
BIO 106	Environmental Science and	3
BIO 107	Environmental Science Lab	1
PSY 170	General Psychology, or	
SOC 190	Introduction to Sociology	3

Graphic Design Emphasis #8225 — 36 credits

ART 101	Drawing and Composition I	3
ART 102	Drawing and Composition II	3
ART 103	Design I	3
ART 104	Color Theory, or,	
GAT 255	Color System Management	3
BUS 101	Introduction to Business	3
GAT 150	Typography	2
GAT 168	Graphic Arts Internship, or, GAT Elective, or ART Elective	3
GAT 178	Introduction to Desktop Publishing	3
GAT 241	Intermediate Desktop Publishing	4
GAT 242	Advanced Desktop Publishing	3
MKT 260	Principles of Marketing	3
WEB 225	Digital Photography	3

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.
Graphic Arts Career Programs

OPTION C: CROSS MEDIA PRODUCTION #8250

Degree conferred: Associate in Applied Science – 67 credits

Program contact: Division of Technical Programs,
(815) 921-3000
www.rockvalleycollege.edu/engineering

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 and 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.

Graphic Arts Technology Program
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	Introduction to 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	3
MTH 115	General Education Mathematics, or,	
MTH 120	College Algebra	3
ENG 103	Composition and Literature, or,	
SPH 131	Fundamentals of Communication	3
BIO 106	Environmental Science and	3
BIO 107	Environmental Science Lab	1
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 pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

HUMAN SERVICES #5300

Degree conferred: Associate in Applied Science - 66 credits

Limited transferability

Program contact: Division of Math, Human Services, & Fitness, Wellness, and Sport, (815) 921-3412
www.rockvalleycollege.edu/academics/HumanServices/index.cmf

Program overview
Graduates of this program are prepared for jobs as a paraprofessional in mental health, corrections, and other community social service agencies dedicated to human service. Course work focuses on learning how to assess, plan, work toward problem resolution, and assist in meeting human needs. It is important to note that the Human Services program is not preparation for a B.S.W. in Social Work. Although course work transfers to some private four-year schools, program credits do not transfer to state universities.

Work and employment
Program graduates typically become generalists in the human services field. They are prepared to work under counselors, psychologists, and social workers in the area of human services.

More about the program
HSR 101 – Introduction to Human Services and ENG 101 – Composition I must be taken prior to, or concurrently with, enrollment in other Human Services courses. The HSR 101 prerequisite may be waived for students who wish to take a HSR course as a general elective, for professional development, or for personal interest and who are not pursuing the AAS in Human Services.

Certificate available:
– *Substance Abuse Counseling*

Human Services Course Requirements **42 credits**

HSR	101	Introduction to Human Services	3
HSR	102	Introduction to Group Processes	3
PSY	250	Psychology of Personality	3
EDU	244	Students with Disabilities in School	3
PSY	276	Abnormal Psychology	3
HSR	201	Interpersonal Behavior	3
HSR	203	Family Services	3
HSR	205	Field Placement I	(1-4)
HSR	206	Field Placement II	2
HSR	211	Interviewing Techniques	3
PSY	225	Child Development, or,	
SOC	290	Social Problems, or,	
SOC	292	Sociology of Deviance, or,	
SOC	293	The Aging Process, or,	
SOC	295	Racial and Ethnic Relations	3

Electives: Select 9 credits from the following:

FWS	235	Alcohol and Drug Education	3
HSR	231	Substance Abuse Treatment	4
HSR	232	Substance Abuse Rules and Regulations	3

- OR –
Any of the other courses under the listed previously as alternatives to PSY 225 provided the course is not being used to the a program requirement.

CRM	125	Criminal Procedures and Civil Rights	3
CRM	225	Juvenile Procedures	3

General Education Course Requirements: 24 credits

ENG	101	Composition I	3
SPH	131	Fundamentals of Communication	3
PSY	170	General Psychology	3
SOC	190	Introduction to Sociology	3
PSY	270	Life-Span Development Psychology	3
SOC	299	Marriage and the Family	3

General Education Electives:
Select six credits from the following

ENG	103	Composition II	3
Mathematics (115 or greater)			3-5
Science			3-5
		(AST 202)	
		(BIO 100 or higher)	
		(CHM 105 or higher)	
		(GEL 101 or higher)	
		(PHY 201 or higher)	

Note: The HSR 205 Field Placement requirement must involve a practicum in a substance abuse treatment/prevention setting. After registering for HSR 205, practicum sites are arranged by the student in consultation with the chair of the Human Services program.

Substance Abuse Counseling Certificate 34 credits

HSR	101	Introduction to Human Services	3
HSR	102	Group Processes	3
PSY	250	Psychology of Personality	3
HSR	201	Interpersonal Behavior	3
HSR	203	Family Services	3
HSR	211	Interviewing Techniques	3
HSR	231	Substance Abuse Treatment	4
HSR	232	Substance Abuse Rules and Regulations	3
HSR	205	Field Placement I	4
HSR	206	Field Placement II	2
FWS	235	Alcohol and Drug Education	3

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

INDUSTRIAL COMPUTER SYSTEMS #4000

Degree conferred: Associate in Applied Science – 65 credits

Program contact: Division of Engineering and Technology, (815) 921-3101
www.rockvalleycollege.edu/engineering

Program overview
Graduates of this program have developed the knowledge, communication skills and management ability to interface with and between a variety of manufacturing or other industry professionals. The graduates are prepared for a position that maintains, repairs or installs machinery in factories, stores, or health care facilities. ICS graduates understand electronics for technical support, programming in order to correct and modify source code, and networking in order to mitigate and expand networks.

Work and employment
Graduates of this program might work any place where machinery exists. ICS graduates have the training and knowledge to install, maintain and repair machines of all types.

Transfer opportunities
Graduates interested in pursuing their baccalaureate degree in this field may transfer to Illinois State University. Students interested in this option should contact Illinois State University early in their college career.

Industrial Computer Systems

Course Requirements:		**40 credits**
Required courses:		*31 credits*
CIS 102	Intro to Computers & Info Systems	3
CIS 180	Introduction to Visual Basic Programming, or,	
CIS 276	Introduction to C/C++ Programming	4
EET 141	DC/AC Circuits & Electronics I	4
EET 142	DC/AC Circuits & Electronics II	4
EET 240	DC/AC Circuits & Electronics III	4
EET 135	Digital Electronics	4
EET 125	Electronics Fabrications Skills	2
MET 146	Hydraulics, Pneumatics & PLCs	3
PCT 110	Networking Essentials, or,	3
PCT 120	Cisco Networking I	4

Electives: *9 credits*
With the approval of the Business/CIS/Engineering and Technology Associate Dean, select courses with any of the following prefixes: CIS, PCT or EET.

General Education Course Requirements:		**25 credits**
ENG 101	Composition I	3
ENG 103	Composition II	3
SPH 131	Fundamentals of Communication	3
MTH 160	Topics from Finite Math	3
BUS 101	Introduction to Business	3
BUS 223	Business Statistics	3
CHM 120	General Chemistry I	4
PSY 170	General Psychology	3

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

MANUFACTURING ENGINEERING TECHNOLOGY #8800

Degree conferred: Associate in Applied Science – 65 credits

Program contact: Division of Engineering and Technology, (815) 921-3101
www.rockvalleycollege.edu/engineering

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.

Work and employment

In addition to the areas of product design, 3D 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

This program provides the first two years of an engineering technology baccalaureate program. Graduates may transfer with articulated credit to universities such as Bradley University, Northern Illinois University, Illinois State University, MSOE, Southern Illinois University and UW Platteville.

Manufacturing Engineering Technology
Core Course Requirements: 41 credits

MET 110	Manufacturing Processes I	3
MET 111	CNC Machine Setup/Operation/Programming	3
MET 243	Continuous Improvement in Manufacturing	3
MET 100	Introductory CAD and Print Reading	3
MET 105	Materials and Processes	3
MET 133	Graphics/SolidWorks CAD I	3
MET 146	Hydraulics, Pneumatics, and PLCs	3
MET 162	Applied Physics	4
MET 217	Statics	3
MET 218	Strength of Materials	3
EET 141	DC/AC Circuits & Electronics I	4
EET 254	Robotics and Automated Systems	3
MET 106	Metrology	3

Students must select one of the following areas of emphasis: 9 credits

1. Mechanical Design

MET 220	Mechanisms	3
MET 221	Machine Design	3
MET 249	Manufacturing Capstone Project	3

OR

2. Automated Production

MET 226	CNC/CAM Operations I	3
MET 247	Mfg. Methods, Process Planning and Systems	3
MET 249	Manufacturing Capstone Project	3

General Education Course Requirements: 15 credits

ENG 101	Composition I	3
ENG 103	Composition II, or	
ENG 110	Introductory Technical Writing	3
MTH 125	Plane Trigonometry, (3), or,	
MTH 132	Pre-calculus Mathematics, (5), or,	
MTH xxx	Mathematics Elective	
MTH 100	Technical Mathematics (5)	3-5
SPH 131	Fundamentals of Communication	3

Certificates

CAD #8810 15 credits

MET 110	Manufacturing Processes I	3
MET 100	Introductory CAD and Print Reading	3
MET 108	Computer Drafting using AutoCAD	3
MET 133	Graphics/SolidWorks CAD I	3
MET 233	Graphics/SolidWorks CAD II, or,	
MET 118	Intermediate AutoCAD – Production Drafting	3

CNC #8820 18 credits

MET 110	Manufacturing Processes I	3
MET 111	CNC Machine Setup/Operation/Programming, or	3
MET 120	CNC Machine Setup/Operation, and	2
MET 121	Fundamentals of CNC Manual Programming	2
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	Design of Experiments, (4), or,	
MTH 220	Elements of Statistics (3)	3-4

Certified Manufacturing Associate #8840 13 credits

MET 110	Manufacturing Processes I	3
MET 100	Introductory CAD and Print Reading	3
MET 106	Metrology	3
MET 120	CNC Machine Setup and Operations	2
MET 121	Fundamentals of CNC Programming	2

Laser Processes/8850
(ICCB approval pending) 22 credits

WLD 100	Introduction to Welding	3
MET 100	Introductory CAD and Print Reading	3
MET 105	Materials and Processes	3
MET 162	Applied Physics	4
MET 115	Introduction to Laser Processes	3
MET 215	Laser Processes I	3
MET 225	Laser Processes II	3

A pre- or co-requisite 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 #3950

Certificate: 26 credits

Program contact: Division of Mass Communication
(815) 921-3360
www.rockvalleycollege.edu/masscom

Program overview
Graduates of this 26-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 and 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 degree or a four-year degree.

Media Production Certificate
Requirements ..... 26 Credits

COM 130	Intro to Mass Communication	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 257	Advanced Video Production	3
COM 296	Documentary Video Production, or,	
COM 297	Motion Picture Production	3
COM 298	Mass Communication Internship	1
WEB 101	Programming Related to the Internet	4

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

Nursing Programs

NURSING/A.A.S. DEGREE #5400

Degree conferred: Associate in Applied Science – 70 Credits

ADN Program length: 4 semesters core nursing
Limited transfer and limited enrollment
Nursing Program Contact: (815) 921-3261
Web link: www.rockvalleycollege.edu/Academics/Nursing/associatedegree-nursing.cfm

Program Overview:
The associate degree nursing program prepares graduates to work as entry-level registered professional nurses in a variety of health care settings, including acute care facilities, long-term care and many specialty related health care facilities. According to the standards of the Illinois Nurse Practice Act, classes, labs and clinical experiences are integrated into the program. Supervision by credentialed nursing faculty allows students to develop and practice safe, competent entry level nursing skills. The professional registered nurse program is highly competitive. It is recommended that as many general education credits as possible are completed before beginning the nursing curriculum. 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.

Information: Prospective nursing students are required to attend a Nursing Information Session. Contact the Nursing Program Office for dates and times.

Advisement: Meet with an academic counselor to develop an academic plan.

Application:
ADN application due February 15 (fall admission) **or** ADN application due October 15 (spring admission) Transfer applicants (includes LPN Bridge) should submit all college transcripts and/or PN program transcripts to the RVC Records Office with indication of intent to apply to the nursing program.

Pre-Admission Tests
- TEAS Test: Notification by letter of eligibility to test.
- LPN Step Test

Study resources can be assessed at www.atitesting.com.

Admission criteria (in-district applicants are qualified):
- B average in biological sciences including BIO 185 or BIO 281/282 and BIO 274
- B average in pre-requisite GPA and cumulative GPA
- *ADN:* Proficient or higher TEAS score
- *Bridge:* Proficient or higher ATI Comprehensive Predictor or LPN Step scores per program standard
- *Background check:* Current certified nursing assistant/ Healthcare Worker Registry with No disqualifying convictions (Illinois Department of Public Health) or current LPN license.
- *Essential Abilities:* RVC Student Nurse Handbook most recent edition.

Licensure: Subject to Illinois Nurse Practice Act regarding professional conduct
- Program courses completed with a minimum grade of "C" 80% or better
- Completion of state application
- Criminal background check
- Eligible to take the NCLEX-RN examination

Fees: Physical exam, titers/immunizations, Mantoux test, uniform, licensure application, fingerprint background check and NCLEX-RN subject to change

Clinical: Experiences require travel to facilities in the college region.

Program Standards: All nursing courses, both theory and clinical, require a "C" to pass. Students who do not earn a "C" or better will remediate by course repetition.
No more than one NRS course may be repeated.

Prerequisites ADN Program

BIO 185	Foundations of Anatomy and Physiology (or 8 credits BIO 281/282)*	5
PSY 170	General Psychology*	3
BIO 274	Microbiology*	4

Associate Degree Nursing Core Courses (46 Credits)
First semester Level I

PNU 107	Basic Principles of Pharmacology for Nursing	1
NRS 108	Pathophysiology - Altered Health Concepts	3
NRS 110	Core Concepts I - Professional Nursing	3
NRS 111	Core Concepts II - Professional Nursing	5
FWS 237	Nutrition for Optimum Living*	3

Second semester Level II

NRS 207	Pharmacology for Nursing Care	2
NRS 214	Family and Reproductive Health Nursing	2
NRS 222	Family and Reproductive Health Clinical	3
NRS 217	Psychiatric Nursing	2
NRS 224	Psychiatric Nursing Clinical	3

Third semester Level III

NRS 213	Adult Health Nursing I	2
NRS 234	Adult Health Clinical I	3
NRS 215	Child and Family Health Nursing	2
NRS 232	Child and Family Health Clinical	3
ENG 101	Composition I*	3

Fourth semester Level IV

NRS 212	Adult Health Nursing II	2
NRS 242	Adult Health Clinical II	3
NRS 218	Adult Health Nursing III	2
NRS 244	Adult Health Clinical III	3
NRS 225	Professional Nurse Role	2

General Education Elective Requirements (24 Credits)*
Electives 6 credits:

MTH 220	Elements of Statistics, or,	3
PSY 270	Lifespan Developmental Psychology	3
SOC 190	Introduction to Sociology*	3

* *Indicates the required General Education and elective courses.*

Nursing Programs

LPN BRIDGE PROGRAM

Purpose: The LPN Bridge program is for LPN's to pursue the AAS in Nursing

Program length: 3 semesters
Application deadline: October 15 (for spring admission)
Nursing Program contact: (815) 921-3261
Web Link for More Information:
www.rockvalleycollege.edu/academics/nursing/associatedegree-nursing.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. Eligibility is based upon prior satisfactory completion of a recognized practical nursing program within the past five years or current nursing practice for those who graduated more than five years ago. **ADN program requirements must be met to qualify for admission.** The nursing program reserves the right to make final admission decisions based upon the qualifications of the applicant pool for each admission cycle.

It is recommended that as many general education credits as possible are completed before beginning the nursing curriculum. LPN's who meet admission criteria and successfully complete the LPN Bridge courses will be eligible to continue in the ADN Program. After the Bridge semester the student completes the second year nursing courses over the next two semesters. LPN's receive credit for nursing courses (18 additional nursing credits) from the first two semesters of the ADN Program after satisfactory completion of NRS 232 or NRS 234 with a minimum "C" 80% grade.

Prerequisites LPN Bridge to ADN Program

BIO 185	Foundations of Anatomy and Physiology (or 8 credits BIO 281/282)*	5
PSY 170	General Psychology*	3
BIO 274	Microbiology*	4
ENG 101	Composition I*	3
FWS 237	Nutrition for Optimum Living*	3

Bridge semester Level II

NRS 108	Pathophysiology - Altered Health Concepts	3
NRS 207	Pharmacology for Nursing Care	2
NRS 210	Transition to ADN Nursing	3

**Indicates the required General Education courses*

CAREER TECHNICAL EDUCATION

HYBRID ONLINE NURSING/ A.A.S. DEGREE #5450

Degree conferred: Associate in Applied Science – 71 Credits

ADN Program length 4 semesters core nursing
Limited transfer and limited enrollment
Nursing Program Contact: (815) 921-3261
Web Link: www.rockvalleycollege.edu/Academics/Nursing/associatedegree-nursing.cfm or www.NIOIN.org

Program Overview:
See ADN Program Overview. The hybrid online nursing program is an alternative educational delivery that combines online theory classes with labs and clinical experiences. Students must be highly self-directed to complete online course assignments and computer based testing. Each online theory course has weekly tests, interactive student discussions, case studies, and proctored standardized exams. Clinical courses are integrated at a broad spectrum of acute care and community facilities. It is recommended that as many general education credits as possible are completed before beginning the nursing curriculum.

Information: Prospective nursing students are required to attend a Nursing Information Session. Contact the Nursing Program Office for dates and times. Meet with an academic counselor to develop an academic plan.

Pre-admission Test: The Teas Test is required: Notification by letter of eligibility to test. Study resources can be accessed at www.atitesting.com

Applications:
Hybrid (NIOIN) application due October 15 (spring admission)
Transfer applicants should submit all college transcripts and/or PN program transcripts to the RVC Records Office with indication of intent to apply to the nursing program.

Admission criteria (in-district applicants are qualified):

- C average or higher in biological sciences: BIO 185 or BIO 281/282 and BIO 274
- B average in pre-requisite GPA and cumulative GPA
- Proficient or higher TEAS score
- Online general education 3 credit course with a grade of "B" or better
- Background check: Current certified nursing assistant/Healthcare Worker Registry with No disqualifying convictions (Illinois Department of Public Health)
- Essential Abilities: Hybrid Online AAS Program Student Nurse Handbook most recent edition

Licensure: Subject to Illinois Nurse Practice Act regarding professional conduct

- Program courses completed with a minimum grade of "C" 84% or better
- Completion of state application
- Criminal background check
- Eligible to take the NCLEX-RN examination

Fees: Physical exam, titers/immunizations, Mantoux test, uniform, licensure application, fingerprint background check and NCLEX-RN subject to change

Clinical: Experiences require travel to facilities in the college region.

Program Standards: All hybrid online nursing courses, both theory and clinical, require a "B" (84% or higher) to pass. Students who do not earn a "B" or better will remediate by learning contract or course repetition. No more than one NUR course may be repeated.

Prerequisites ADN Program

BIO 185	Foundations of Anatomy and Physiology* (or 8 credits BIO 281/282)	5
BIO 274	Microbiology*	4
General education course*		3

Associate Degree Nursing Core Courses (47 Credits)
First semester Level I Spring

NUR 178	Pharmacology	2
NUR 179	Fundamentals of Nursing	4
NUR 181	Fundamentals of Nursing Clinical	5.5
FWS 237	Nutrition for Optimum Living*	3

Second semester Level II Summer

NUR 182	Med/Surg I	4
NUR 183	Med/Surg I Clinical	5.5
PSY 170	Intro to Psychology*	3

Third semester Level III Fall

NUR 280	Family Health	5
NUR 281	Family Health Clinical	3
NUR 282	Med/Surg II	3
NUR 283	Med/Surg II Clinical	3
PSY 270	Lifespan Developmental Psychology*	3

Fourth semester Level IV Spring

NUR 284	Professional Roles Nursing	1
NUR 285	Mental Health	2
NUR 286	Mental Health Clinical	3
NUR 287	Med/Surg III	3
NUR 288	Med/Surg III Clinical	3

General Education Requirements (27 total)

ENG 101	Composition I*	3
SPH 131	Fundamentals of Communication*	3

**General Education required and elective courses.*

Nursing Programs

PRACTICAL NURSING CERTIFICATE #5404

Certificate: 41 credits
Program length: 3 semesters
Limited transfer and limited enrollment
Nursing Program Contact: (815) 921-3261
Web Link: www.rockvalleycollege.edu/Academics/Nursing/certificates.cfm

Program Overview
The practical nursing (LPN) certificate program prepares graduates to work as entry-level practical nurses in a variety of health care settings, including long term care and other community health facilities. Classes, labs and clinical experiences are integrated into the program. Supervision by credentialed nursing faculty allows students to develop and practice safe, competent entry level nursing skills. The practical nursing program is competitive. 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 each year.

Information/ Advisement: Prospective nursing students are required to attend a Nursing Information Session. Contact the Nursing Program Office for dates and times. Meeting with an academic counselor to develop an academic plan is recommended.

Application: The PN application deadline is April 1 for fall admission

Pre-Admission Test: The TEAS Test is required; notification of eligibility to test will be by letter. Study resources available at www.atitesting.com

Admission criteria (in-district applicants are qualified):
- B grade in BIO 185 or equivalent
- B average in pre-requisite GPA and cumulative GPA
- Proficient or higher TEAS score
- Background check: Current certified nursing assistant/ Healthcare Worker Registry with No disqualifying convictions (Illinois Department of Public Health)
- Essential Abilities: RVC Student Nurse Handbook most recent edition

Licensure: Subject to Illinois Nurse Practice Act regarding professional conduct
- Program courses completed with a minimum grade of "C" 80% or better
- Completion of state application
- Criminal background check
- Eligible to take the NCLEX-PN examination

Fees: Physical exam, titers/immunizations, Mantoux test, uniform, licensure application, fingerprint background check and NCLEX-PN subject to change

Clinical: Experiences require travel to facilities in the college region.

Program Standards: All practical nursing courses, both theory and clinical, require a "C" to pass. Students who do not earn a "C" or better will remediate by course repetition. No more than one PNU course may be repeated.

Prerequisites LPN Program

BIO 185	Foundations of Anatomy and Physiology	5

Practical Nursing Core Requirements (27 Credits)

PNU 103	Practical Nursing: Fundamentals	7
PNU 107	Basic Principles of Pharmacology for Nursing	1
PNU 120	Nursing Throughout the Lifespan: Mental Health	6
PNU 140	Nursing Throughout the Lifespan: Conception Through Adolescence	6
PNU 160	Nursing Throughout the Lifespan: Young Adult Through Middle Adult	6
PNU 201	Nursing Throughout the Lifespan: Geriatric	6

General Education Course Requirements (9 Credits)

PSY 170	General Psychology*	3
FWS 237	Nutrition for Optimum Living*	3
ENG 101	Composition I*	3

**Indicates required general education courses.*

NURSING AIDE CERTIFICATE #5411

Certificate: 7 credits
Program length: eight weeks or one semester
Non-transferable and limited enrollment
Nursing Program Contact: (815) 921-3264
Web Link: www.rockvalleycollege.edu/Academics/Nursing/certificates.cfm

Program Overview:
The nursing aide certificate program prepares students to enter the health care workforce and a pathway to allied health and nursing careers. A flexible program of schedule options includes morning, afternoon or evening sessions. Mandatory health requirements must be met. Students who complete the program with a grade of "C" or better are eligible for the Nurse Aide 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. Classroom, skill labs, and clinical attendance are required. This course is a pre-requisite for both the practical nursing certificate and the A.A.S. degree in nursing.

Placement Testing: www.rockvalleycollege.edu/Admission/Testing/CNA.cfm
Educational Planning Session (EPS): www.rockvalleycollege.edu/EPS-Reg/
Background Check: A fingerprint background check will be completed during the first week.
Essential Abilities: RVC Student Nurse Assistant Handbook most recent edition.
Certification: Pass standardized state exam and skill validations.
Fees: Physical exam, Mantoux test, uniform and state exam fees subject to change.
Clinical: Experiences require travel to facilities in the college region.

NAD 101	Nursing Aide	7 credits

CAREER TECHNICAL EDUCATION

OFFICE PROFESSIONAL #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, (815) 921-3101

Program overview
The Office Professional program allows students to focus on one of four areas of office administration: General office, medical office, legal office, or office software application professionals. Under the guidance of the Associate Dean of Business/CIS, students will be able to tailor a program that meets their unique needs.

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 organization. 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.

Software Application Support Professional
Graduates of this program are adept in computer software and the application of PC's to support business and office systems. Graduates of the program find work in office support and computer user support positions in a variety of office settings.

Work and 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
MKT	288	Customer Relations	3
OFF	115	File Management	2
OFF	118	Computer Keyboarding	1
OFF	121	Advanced Document Preparation and Design	3
OFF	122	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 Requirements 18 credits

ENG	101	Composition I	3
ENG	105	Business Communications	3
SPH	131	Fundamentals of Communication	3
CIS	102	Introduction to Computers and Information Systems	3

General Education Electives 6 credits
Students must select courses with at least two different prefixes to fulfill IAI General Education Core Curriculum requirements (example: ART, BIO, ECO, SOC, etc.)

Choose appropriate option:

Option A: General Office Professional 9 credits
Electives: Choose courses with BUS, ATG, MGT, MKT, OFF, PCI prefixes.

Option B: Legal Office Professional 9 credits

BUS	200	Legal Environment in Business	3

Electives:
Choose courses with BUS, ATG, MGT, MKT, OFF, PCI prefixes.

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

Option D: Software Applications Support Professional 9 credits

PCI	180	Introduction to Computer User Technical Support	3
PCI	200	Microcomputer Information Systems Practicum	3
PCI	226	Post Advanced Microcomputer Applications/Windows	3

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	122	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

OFF	147	Coding	4
OFF	220	Advanced Coding	3
OFF	245	Intro to Health Information Technology	3
HLT	110	Medical Terminology	2
BIO	171	Biology of Human Disease	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 Preparation1	

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 pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

PARAPROFESSIONAL EDUCATOR #5900

Degree conferred: Associate in Applied Science – 65 credits

Limited transfer degree
Program contact: Teacher Education Programs, (815) 921-3334

Program overview
This program is designed to fulfill the certification requirements of the No Child Left Behind Act. It is intended for teacher aides and paraprofessionals who assist in the instruction of reading, writing, and math in a kindergarten through 12th grade educational setting.

Work and employment
Paraprofessional teacher aides prepare classroom materials, supervise students, and operate AV equipment under the guidance of the teacher. Other tasks include collecting and grading homework and tests, and recording results.

Certificate program also available
The 34-credit Paraprofessional Educator Certificate is a shorter preparation program for paraprofessionals who already have some college credit.

Paraprofessional Educator Course Requirements — 22 credits

EDU 204	Introduction to Teaching Reading for Elementary Teachers	3
EDU 224	Introduction to Education	3
EDU 202	Children's Literature	3
EDU 234	Introduction to Technology for Teachers	3
EDU 244	Students with Disabilities in Schools	3
EDU 274	Elementary School Practicum	1
MTH 216	Math for Elementary Teachers I	3
PSY 225	Child Development, or,	
PSY 271	Educational Psychology	3

General Education Course Requirements — 21 credits

Required courses below ..... 15 credits

ENG 101	Composition I	3
ENG 103	Composition II	3
SPH 131	Fundamentals of Communication	3
PSY 170	Introduction to Psychology	3
SOC 295	Racial and Ethnic Relations	3

Humanities and Fine Arts

Choose one course below: ..... 3 credits

HUM 111	Introduction to Humanities I: From the Ancient World to 1600	3
HUM 112	Introduction to Humanities II: From 1600 to the Present	3
HUM 210	Western Cultural Expression of Gender in the Visual and Performing Arts	3
LIT	Any Literature Course except for LIT 155	3
PHL 150	Introduction to Philosophy	3
ART 131	Introduction to the Visual Arts	3
MUS 102	Introduction to Music	3
MUS 104	Introduction to American Music	3
THE 133	Introduction to Theatre	3

Math/Science

Choose one course below: ..... 3 credits

MTH 115	General Education Mathematics	3
MTH 135	Calculus with Analytic Geometry I	5
MTH 160	Topics from Finite Mathematics	3
MTH 211	Calculus for Business and Social Sciences	4
MTH 220	Elements of Statistics	3
BIO 100	Introductory Human Biology	3
BIO 103	Introductory Life Science	3
BIO 106	Environmental Science	3
PGE 100	Physical Geography	3
GEL 101	Introduction to Geology	4
GEL 103	Fossils and Earth History	4
ATS 105	Atmospheric Science	4

Electives — 22 credits

ECE 103	Nutrition and Health for the Young Child (2), or,	
FWS 265	Personal Fitness and Wellness, (3)	2-3
EDU 245	Special Education Practicum	1
ART 283	Art in the Elementary Schools	3
Spanish (SPN), German (GRM), French (FRN) Course		4
PSY 276	Abnormal Psychology	3
SOC 299	Marriage and Family	3
FWS 235	Drug and Alcohol Education	3
MTH 217	Math for Elementary Teachers II	3

Certificate Paraprofessional Education/5901 — 34 credits

EDU 204	Introduction to Teaching Reading	3
EDU 202	Children's Literature	3
EDU 244	Students With Disabilities in Schools	3
EDU 234	Introduction to Technology for Teachers	3
EDU 224	Introduction to Education	3
EDU 274	Elementary School Practicum	1
MTH 216	Math for Elementary Teachers I	3
PSY 225	Child Development, or,	
PSY 271	Educational Psychology	3
SOC 295	Racial and Ethnic Relations	3

Electives – Choose from electives listed in the degree program above

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

RESPIRATORY CARE PROGRAM #5200

Degree conferred: Associate in Applied Science – 71 credits

Limited transferability
Program contact: Division of Allied Health,
(815) 921-3200, or the Program Chair, (815) 921-3220

Program overview
Respiratory therapists provide, under physician orders, all the general, critical care, and diagnostic services important for people with breathing difficulties. Such services include administering oxygen, humidity, and continuous aerosols, as well as aerosolized medications to improve lung function. Therapists also maintain life-support systems for patients who cannot breathe for themselves and may also perform cardiopulmonary procedures. Skills are mastered through classroom, laboratory, and clinical experiences.

Work and 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 setting or through advancement into management or educational positions.

Professional credential and program accreditation
Graduates of the program are eligible to sit for the National Board for Respiratory Care's exams leading to the Registered Respiratory Therapist credential. This meets or exceeds the requirement for practice in Illinois and any other state. The program is fully accredited by the Commission on Accreditation for Respiratory Care (CoARC).

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-105 or 110 (recommended) or higher level. BIO-185 and BIO-274 requires BIO-100 and Chemistry-105 or higher, with minimum grades of 'C', be taken within the last 5 years. Other colleges' Biology course prerequisites may be different than RVC.
4. Math requirement: Minimum Math requirement for the Respiratory Care program is MTH-092, Beginning Algebra, at the college level. To meet chemistry's prerequisite at RVC, MTH-094 or higher level math with a minimum grade of 'C' is required. 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.

Admission procedure
Admission is selective and competitive. All required documents must be submitted to the Respiratory Care Program office on or before January 20 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 and 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 or from graduating.

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

General Education Course Requirements:			**20 credits**
HLT	110	Medical Terminology	2
ENG	101	Composition I	3
BIO	185	Foundations of Anatomy and Physiology	5
BIO	274	Microbiology	4

Select one for the speech requirement:

SPH	201	Interpersonal Communication (recommended), or,	
SPH	131	Fundamentals of Communication	3

Select one for the elective requirement:

HLT	105	Phlebotomy	3
FWS	237	Nutrition for Optimum Living	3
PHL	153	Medical Ethics	3
BIO	171	Biology of Human Disease	3
MGT	270	Principles of Management	3
PSY	170	General Psychology	3
PHL	256	Contemporary Moral Issues	3

Cooperative community colleges are Blackhawk Technical College, Kishwaukee College, Highland Community College, McHenry County College and Sauk Valley Community College.

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

SURGICAL TECHNOLOGY #5405

Certificate – 40 credits

Program contact: Division of Allied Health, (815) 921-3200 or Program Coordinator, (815) 921-3205
www.rockvalleycollege.edu

Program overview
Surgical technologists prepare the operating room and equipment used for surgery, assist in preparing patients for surgery, are responsible for creating and maintaining the sterile environment in the operating room, and assist in other aspects of the procedure. The program, featuring classroom, laboratory, and clinical experiences, prepares students to assume an important role with surgical teams at entry level.

Work and employment
Graduates are employed in hospital operating rooms, delivery rooms, emergency departments, ambulatory surgical centers, travel agencies, physician offices, dental offices, and central sterilizing departments. With additional specialized educational and training, graduates can become Surgical Assistants, Program Directors, Instructors, and Surgical/Medical Sales Representatives.

Professional credential and program accreditation
Graduates are eligible to become Certified Surgical Technologists (CST). Students in their last semester of the program 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).

Admissions policies
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. Chemistry requirement: One semester of college level chemistry (with a lab). At RVC it would be CHM-105 or 110 (recommended) or higher level. BIO-185 and BIO-274 requires BIO-100 and Chemistry-105 or higher, with minimum grades of 'C', be taken within the last 5 years. 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, at the college level. To meet chemistry's prerequisite at RVC MTH-094 or higher level math with a minimum grade of 'C' is required. 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 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 & 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.

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 may be filed at any time and must be filed before April 15 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 15.
5. Applicants not selected one year are individually responsible for reactivating and updating their application in subsequent years.

Criminal Background Check and 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 elected AST standard of 125 documented cases verified as completed. Failure to do so will prevent a student from taking later courses in the program or graduating.

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 the cooperative community colleges.

Cooperative community colleges are: Highland Community College, Kishwaukee College, and Sauk Valley College.

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

SUSTAINABLE ENERGY SYSTEMS #8600

Degree conferred: Associate in Applied Science – 66 credits

Program contact: Division of Business, CIS, and Engineering and Technology, (815) 921-3101
www.rockvalleycollege.edu/engineering

Program overview
Graduates of the 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 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 you to take the Alternative Energy Integrator Certification examinations offered by the Electronics Technicians Association, International.

Work and employment
Successful graduates secure positions as sustainable energy system designers and consultants, sales and service professionals, or as part of an alternative energy hybrid system integration support team. Areas of employment as electronics technicians to support a wide variety manufacturing and service needs are also included in career selections.

Hands-on learning
EET (SES) classes include alternative energy trainers and systems to give students a more complete grasp of concepts. Several field trips are required 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 multi-meters.

Transfer opportunities
Graduates have the option to pursue a baccalaureate from Northern Illinois University and other select universities.

Certificates available.
– Basic Sustainable Energy System Certificate
– Sustainable Energy Systems

Core Requirements: 47 Credits

EET 105	Intro to Sustainable Energy Concepts	3
EET 107	Intro to Codes and Standards	3
EET 135	Digital Electronics	4
EET 141	DC/AC Circuits & Electronics I	4
EET 142	DC/AC Circuits & Electronics II	4
EET 168	Electronic Engineering TechnologyInternship	2
EET 190	Sustainable Electrical Energy Generation	3
EET 240	DC/AC Circuits & Electronics III	4
EET 251	Microcontrollers & Interfacing	4
EET 277	Geothermal, Solar Heating & Lighting	3
EET 282	Capstone Project	3
EET 298	EET Seminar	3
MET 100	Intro CAD & Blueprint Reading	3
MET 162	Applied Physics	4

Electives: Select 3 credits from the following:

EET 168	Electronic Engineering Technology Internship	1-3
EET 219	Fundamentals of Electric Motors and Controls	3
EET 231	Transform Circuit Analysis	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 265	Audio Electronic Systems	3
EET 275	Wireless Electronics	3
EET 285	Introduction to Digital Signal Processing	3
EET 299	Special Topics in Electronic Engineering Technology	(1-6)
EGR 101	Introduction to Engineering	2

General Education Course Requirements: 16 credits

Select 3 credits from the following:

ENG 101	Composition I	3
ENG 110	Technical Writing, or,	
SPH 131	Fundamentals of Communications	3
MTH 125	Plane Trigonometry (3), or,	
MTH 132	Precalculus Mathematics (5), or,	
MTH 100	Technical Mathematics (5)	3-5

Science Requirement:

Select 4 credits from the following:

CHM 105	Foundations in Chemistry, or,	
CHM 120	General Chemistry I	4

General Education Elective:

3 credits from the Liberal Arts GECC area
Example: ART, ECO, ENG, SOC, etc. 3

Certificates

Sustainable Energy Systems Certificate SES/8601 47 credits (ICCB Approval Pending)

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 & Electronics I	4
EET 142	DC/AC Circuits & Electronics II	4
EET 168	Electronic Engineering Technology Internship	2
EET 190	Sustainable Electrical Energy Generation	3
EET 240	DC/AC Circuits & Electronics III	4
EET 251	Microcontrollers & Interfacing	4
EET 282	Capstone Project	3
EET 298	EET Seminar	3
EET	Elective	3
MET 100	Intro CAD & Blueprint Reading	3
MET 162	Applied Physics	4

Basic Sustainable Energy Systems Certificate SES/8614 25 credits (ICCB Approval Pending)

EET 105	Introduction to Sustainable Energy	3
EET 135	Digital Electronics	4
EET 141	DC/AC Circuits & Electronics I	4
EET 142	DC/AC Circuits & Electronics II	4
EET 190	Sustainable Electrical Energy Generation	3
MET 100	Intro CAD & Blueprint Reading	3
MET 162	Applied Physics	4

Second Degree Requirements for the Sustainable Energy Systems and Electronic Engineering Technology Programs

The degree EET and SES degree programs are very similar. Consequently, obtaining a second degree is an attractive option to many graduates. Specifically, a graduate of the EET program may desire to obtain a second degree in SES. Conversely, a graduate of the SES program may desire to obtain a second degree in EET. ***Fundamentally, a minimum of 15 credits must be taken additionally.***

A graduate of the EET program (8400) who desires to also receive an SES program degree (8600) must take:
EET 105 – (3) – could have been used as an EET elective previously
CHM 105 or 120 – (4) could have been used as an EET science elective previously
EET 107 (3)
EET 168 (2)
EET 190 (3)
EET 277 (3)

This means an EET graduate must take between 15 to 18 credits additionally 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 (2)
MET 111 (3)
MET 146 (3)
EET 254 (3)
EET elective (4)
This means an SES graduate must take 15 credits additionally 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 pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

WEB INFORMATION TECHNOLOGY #3900

Degree conferred: Associate in Applied Science – 66 Credits

Program contact: Division of Business/Computers & Information Systems (815) 921-3101

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 Web site programming and support. Thus, students will not only be able to design Web pages, but apply technical specifications to bring them to life. There are two paths in this program suited to different career interests.

Option A: This path prepares students to be a Web programmer, Web designer, Webmaster, or graphics designer.

Option B: In this path, students will learn the skills they need to be a Web programmer, LAN/WAN administrator, systems administrator, or Internet/Intranet systems administrator.

Work and employment
Graduates of this program often work as Web programmers, Web programmer assistants, Web server systems administrators, Web designers, or Web media developers.

CIS Division Course Requirements 51 credits

Required for both Specializations ..... 33 credits

CIS	102	Intro to Computers & Info Systems	3
CIS	180	Introduction to Visual Basic Programming, or,	
CIS	240	Introduction to Java Programming, or,	
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	230	Web Rapid Application Development, or,	
WEB	235	Web Programming Using Server-Side Scripting	4

Choose one area of specialization:

Option A: Web Site Programming and Design 18 credits

WEB	112	Advanced Multimedia	3
WEB	115	Introduction to Digital Imaging	3
WEB	225	Digital Photography	3

With the approval of the Business/CIS Associate Dean, select courses with any of the following prefixes: CIS, PCT, or WEB. 9

Option B: Web Programmer or Internet/Intranet

Systems Administrator ..... 18 credits

PCT	112	Windows Server Fundamentals	3
PCT	270	Introduction to Unix/Linux	3
PCT	210	Introduction to TCP/IP	3

Electives: 9

With the approval of the Business/CIS Associate Dean, select courses with any of the following prefixes: CIS, PCT, or WEB.

General Education Course Requirements 15 credits

ENG	101	Composition I	3
ENG	103	Composition II, or,	
ENG	105	Business Communication, or,	
ENG	110	Introductory Technical Writing	3
SPH	131	Fundamentals of Speech	3
MTH	120	College Algebra, or,	
MTH	160	Topics from Finite Mathematics, or,	
MTH	220	Elements of Statistics	3
BUS	170	Intro to Organizational Behavior, or,	
PSY	170	General Psychology, or,	
SOC	190	Introduction to Sociology	3

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

WELDING TECHNOLOGY #8218

Certificate - 24 credits

Program contact: Division of Technical Programs,
(815) 921-3000

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 and 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
Welding/8218 **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 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	3
WLD 182	Internship in Welding Technology	3
WLD 180	Independent Study in Welding	5

A pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

CAREER TECHNICAL EDUCATION

Apprenticeship programs

An apprenticeship is a training program that combines paid, on-the-job experience with classroom instruction. Apprenticeship students must be 18 years or older and have a high school diploma or equivalent before being accepted into most programs.

As an apprentice, students will be supervised on-the-job by skilled journeypersons. They will also attend classes every week during the fall and spring semesters. At RVC, students can choose from among three apprenticeship certificate programs:

- Electrician Apprenticeship A.A.S. #9900
–Sheet Metal Workers
–Tool & Die/Precision Machinists

In each program, RVC works in cooperation with a joint apprenticeship training committee that determines admission to that program. For more information, contact the Division of Technical Programs at (815) 921-3003.

ELECTRICIAN APPRENTICESHIP #9900

Degree conferred: Associate in Applied Science – 64 credits

Transferable degree
Program contact: Division of Technical Programs, (815) 921-3003
Web Link for More Information:

Program overview
The Electrician Apprentice 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 and 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 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
ELC 299	Special Topics in Apprenticeship	3
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	Composition II, or,	
ENG 110	Introductory Technical Writing	3
SPH 131	Fundamentals of Speech	3
BUS 170	Intro 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 pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

Sheet Metal Apprenticeship (Five Years) #9918

Degree conferred: Apprenticeship – 40 credits

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.

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 pre- or co-requisite may be required for some courses. Refer to the course descriptions section in this catalog for more information.

Tool & Die/Precision Machinist Certificate (Four Years) #9919

Degree conferred: Certificate ..... *28 credits*

The tool and die maker/precision machinist 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.

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 108	Computer Drafting using AutoCAD	3

Year Three

MET 120	CNC Machine Setup/Operation 2	
MET 121	Fundamentals of CNC Programming Manual	2
MET 240	CNC Programming II	3

Year Four

MET 105	Materials and Processes	3
MET 133	Graphics, Solidworks,TM and CAD I	3

A pre- or co-requisite 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
  619 S. Rock Dr.
  Rockford, IL 61102
  (815) 969-8484
  Attn: Todd Kindred

Sheet Metal

- Rockford Area Sheet Metal Joint Apprenticeship Committee
  3316 Publishers Dr.
  Rockford, IL 61109
  (815) 874-6641
  Fax: (815) 874-5182
  Attn: Brad Glidden

Tool and Die/Precision Machinist

- Rock River Valley Tooling and Machining Association
  P.O. Box 5029
  Rockford, IL 61125
  (815) 978-3698
  Fax: (815) 516-8431
  Attn: Don Williams

For further information contact:
Ms. Ronda Kliman, Area Representative
U.S. Department of Labor
Employment and Training Administration
Bureau of Apprenticeship and Training
308 W. State St., Suite 403
Rockford, IL 61101
(815) 987-4253
Fax: (815) 987-4214

Rock Valley College
Ron Schulz
Associate Dean of Technical Programs
4151 Samuelson Rd.
Rockford, IL 61109
(815) 921-3003

Fax: (815) 921-3029

CAREER TECHNICAL EDUCATION

Cooperative Educational Agreements

Rock Valley College has career education cooperative educational agreements with several Illinois community colleges so that students may enroll in occupational degree and/or certificate programs not available at RVC. Students take all specialized courses at the cooperating college. Related technical and general education courses required by the cooperative programs may be taken at Rock Valley College or the community colleges offering the program. The cooperating college will issue all degrees or certificates for successful completion of the individual program. The student pays the in-district tuition of the offering institution. See "Cooperative Agreements and Tuition Chargebacks" in the Tuition and Fees section.

For further information about the program, call the Student Development Office at (815) 921-4281. Students who wish to obtain application materials, please call ahead and schedule an appointment.

Rock Valley College has cooperative educational agreements with the following two Wisconsin institutions: Blackhawk Technical College and Gateway Technical College.

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 Community College
- Lake Land College
- Lewis and Clark Community
- Lincoln Land Community College
- McHenry County College
- Morton College
- Prairie State College
- Richland Community College
- Sauk Valley Community College
- Spoon River College
- South Suburban College
- Southwestern Illinois College
- Waubonsee Community College

Rock Valley College also has individual **Cooperative Agreements** with the following Illinois institutions that are not included in C.A.R.E.E.R.: Blackhawk Technical College, Gateway Technical College, Harper College, Oakton Community College, and Parkland College.

Popular college contacts for cooperative programs are as follows (please contact Student Development Office for additional information):

Blackhawk Technical College
6064 Prairie Rd., P.O. Box 5009
Janesville, WI 53547
(608) 758-6900

- Culinary Arts (A.A.S.)
- Dental Assistant (Diploma)
- Diesel and Heavy Equipment Technician (Diploma)
- Electric Power Distribution (Diploma)
- Electromechanical Technician (A.A.S.)
- Food Service Aide (Certificate)
- Landscape and Turf Services (Diploma)
- Machine Tool Operation (Diploma)
- Medical Assistant (Diploma)
- Physical Therapist Assistant (A.A.S.)
- Radiography (A.A.S.)
- Sonography

Gateway Technical College
3520 30th Ave.
Kenosha, WI 53144-1690
(262) 564-3300

- Aeronautics - Pilot Training (A.A.S.)
- Air Conditioning - Heating and Refrigeration Technology (A.A.S.)
- Culinary Arts (A.A.S.)
- Graphic Technologies - Designer (A.A.S.)
- Health Information Technology (A.A.S.)
- Horticulture (A.A.S.)
- Interior Design (A.A.S.)
- Interpreter Technician (A.A.S.)
- Judicial Reporting (A.A.S)
- Physical Therapist Assistant (A.A.S.)
- Technical Communications (A.A.S.)

Harper College
1200 West Algonquin Rd.
Palatine, IL 60067-7398
(847) 925-6000

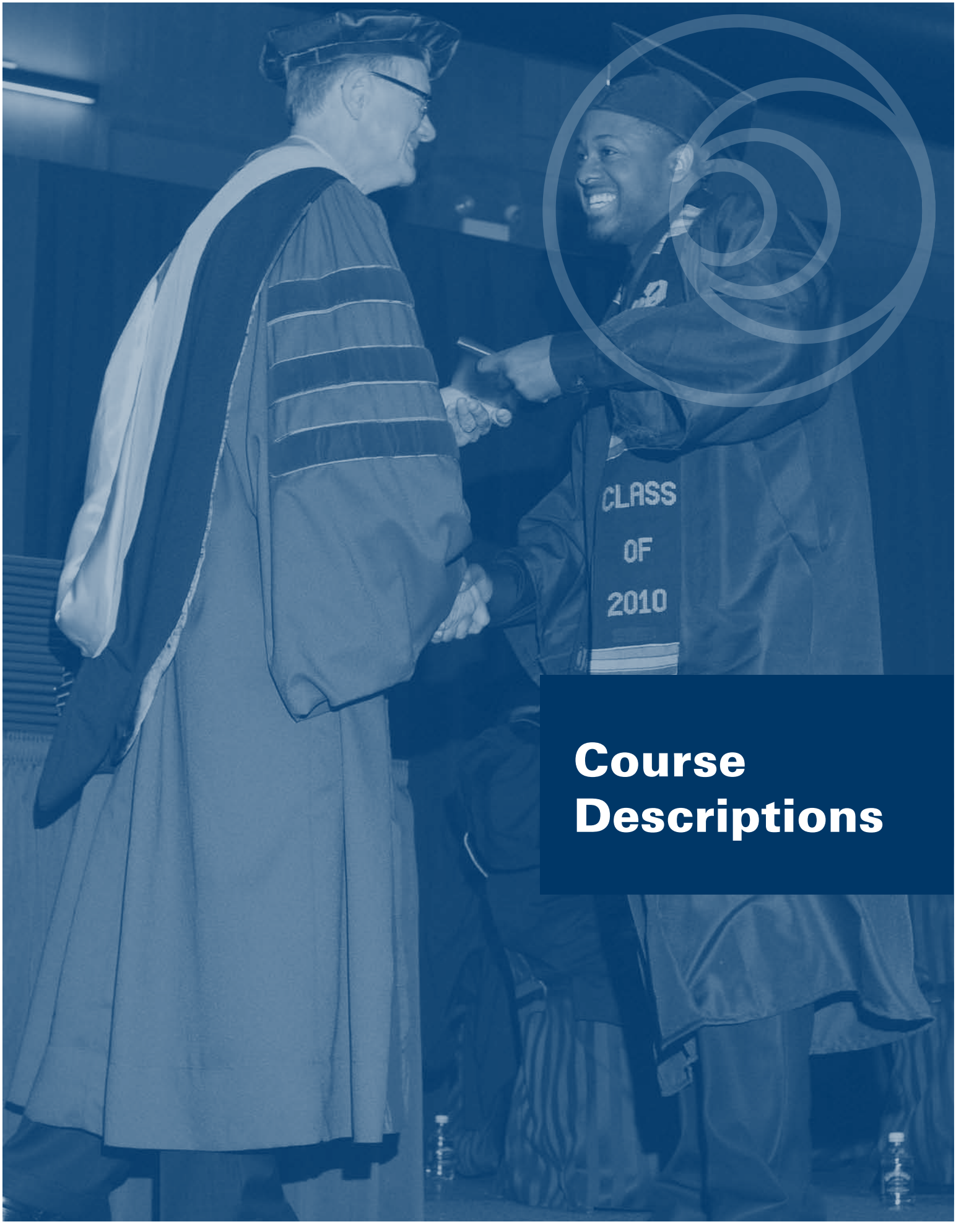
- Cardiac Technology (A.A.S)
- Cardiographic Technology Certificate
- Culinary Arts: Culinary Arts Certificate
- Bread and Pastry Arts Certificate
- Diagnostic Medical Sonography (A.A.S and Certificate)
- Paralegal Studies (A.A.S. and Certificate)

Oakton Community College
1600 East Golf Rd.
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 Ave.
Champaign, IL 61821-1899
(217) 351-2200

- Communication Technology (A.A.S.)
- Radio-TV/Video (A.A.S.)



Course Descriptions

Course Descriptions

All courses on the following pages were approved by the Illinois Community College Board.

Course Numbering System
Each course title is followed by the IAI Code, followed by the number that indicates whether the course is Baccalaureate/Transfer (1.1), Career-Technical (1.2), or Developmental (1.4). These classifications are according to the master course file of the Illinois Community College Board.

Illinois Articulation Initiative (IAI) General Education Core Curriculum Codes
To assist students with identifying qualifying general education core courses (GECC), the following coding system will appear after the course description:

IAI 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

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.
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 the 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 degree.

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.

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.

Listed below is an alphabetized list of instructional disciplines followed by a subject prefix/course abbreviation.

Academic Affairs

Academic Discipline	Course Prefix
Accounting	ATG
Anthropology	ANP
Apprenticeships	APT
Art	ART
Astronomy	AST
Atmospheric Science	ATS
Automotive	ATM
Aviation	AVM
Biology	BIO
Building Construction	BCM
Business	BUS
Chemistry	CHM
Composition	ENG
Computers & Information Systems	CIS
Criminal Justice	CRM
Dental Hygiene	DNT
Early Childhood Education	ECE
Economics	ECO
Education	EDU
Electrician Apprenticeship	ELC
Engineering	EGR
Fire Science	FRE
Fitness, Wellness & Sport	FWS
Geography	GEO
Geology	GEL
Graphic Arts	GAT
Health Courses	HLT
History	HST
Human Services	HSR
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
• Hybrid Online Nursing	NUR
• Practical Nursing	PNU
• Nursing Aide	NAD
Office Programs	OFF
PC Info	PCI
PC Tech Specialist	PCT
Philosophy	PHL
Physical Geography	PGE
Physics	PHY
Political Science	PSC
Psychology	PSY
Respiratory Care	RSP
Sociology	SOC
Speech	SPH
Surgical Technology	SRG
Theater	THE
Web Information Tech.	WEB
Welding	WLD

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 with a grade "C" or higher. Or consent of instructor.
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
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 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.
Prerequisite: ATG 110 or consent of instructor.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

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.
Prerequisite: ATG 110
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

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.
Credit: 4 semester hours
Lecture: 4 *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 91.

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 (H.V.A.C.) 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 91.
Apprenticeship training is available in the specific categories of die maker, tool maker, mold maker, header die maker, precision machinist, and machine repair.

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*

APT 290 -
Tooling Processes I
IAI: None 1.2
The Tooling Processes I course will emphasize die-making principles, life and construction; punching pilots, strippers and stock guides; shedders and knockouts. Also covered are nest-gages, punches, die stops and die sets; jig and fixture making and geometric tolerancing.
Prerequisite: APT 194 and QLT 106 – This course has been withdrawn. Is there a substitute for it?
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

APT 291 -
Tooling Processes II
IAI: None 1.2
The Tooling Processes II course covers cutting material, lathe groups, milling, shaping, grinding, drilling, testing, and automation.
Prerequisite: APT 290
Credit: 3 semester hours
Lecture: 2 Lab: 2

Apprenticeship – Electricians ELC

Rock Valley College, in cooperation with the Electricians Joint Apprenticeship Committee, 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 90.

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 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 hours
Lecture: 1.0 *Lab: 0*

COURSE DESCRIPTIONS

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 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 DC 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: 3 semester hours
Lecture: 3 *Lab: 0*

Art ART

ART 101 -
Drawing and Composition I
IAI: None 1.1
Drawing and Composition 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.
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

ART 141 -
Introduction to Nonwestern Visual Art
IAI: F2 903N 1.1
Introduction to Nonwestern 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 nonwestern 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 Nonwestern Visual Art is a nonwestern 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 –
Printmaking I
IAI: None 1.1.
Printmaking I is an introduction to traditional and contemporary techniques with an emphasis on image development, proper 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: 1 *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 Associate Dean of Social Science & Humanities and the Associate VP of Academic Affairs.*
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.

COURSE DESCRIPTIONS

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 091 & 092 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 091 & 092 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*

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 subsystems. 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
The Automatic Transmissions/Transaxles course covers the theory of Simpson gear trains, removal, disassembly, rebuilding and installation of automatic transmissions and transaxles. Includes in-car diagnosis and service, hydraulics and electronics.
Prerequisite: ATM 105 and ATM 106, or consent of instructor.
Credit: 5 semester hours
Lecture: 3 *Lab: 5*

ATM 285 -
Independent Study
IAI: None 1.2
The Independent Study course allows students to develop specific course goals and objectives based on their needs and previous automotive experience. Students will work with the automotive instructor to determine course goals and length of training time.
Prerequisite: Automotive maintenance experience or completion of automotive courses in the process area of study.
Credit: 1-6 semester hours
Lecture: 1-6 *Lab: 0*

ATM 290 -
Special Topics
IAI: None 1.2
The Special Topics course is designed to satisfy topics of special interest in a particular area of automotive. 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*

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*

COURSE DESCRIPTIONS

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*

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 a knowledge of human biology. General principles of biology are integrated with the consideration of the human organism as an individual and as a member of society. Content will include biochemistry, human metabolism, a review of the systems, human genetics and human reproduction. Credit will not be counted toward graduation if taken after any college anatomy course.
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 toward graduation if students have previous credit for BIO 162 or BIO 205.
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 through hands-on exercises and online laboratories. Credit for BIO 104 will not be counted toward graduation if students have previous credit for BIO 205.
Prerequisite: This course is limited to students currently enrolled 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. Students study aspects of ecology, pollution, and other environmental issues, with emphasis on current events and possible solutions for the future.
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 to complement BIO 106. Students meet two hours a week and explore environmental topics through hands-on exercises, videos, field experiences, and computer activities.
Prerequisite: This course is limited to students currently enrolled in BIO 106 or who have completed it or its equivalent.
Credit: 1 semester hour
Lecture: 0 *Lab: 2*

BIO 137 -
Tropical Marine Biology
IAI: None 1.1
Tropical Marine Biology is an elective field experience class with animal and plant identification in a tropical region. Emphasis is on marine organisms with identification by common name. There is also an orientation to the culture of the country visited. Methods of study include lectures, field trips, wading in tide pools, and snorkeling at coral reefs. Saturday orientations are held in late fall with an eight to 10 day field trip during winter intersession offered in alternate years.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

BIO 140 -
Introduction to Evolution
IAI: L1 907 1.1
Introduction to Evolution is designed to introduce the student 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 microbes. Disease, biological weapons, the foods we eat, and environmental cleanup are just a few of the ways microbes affect our lives. Microbes have the potential to destroy us and save us. This class explores the relationship between society and these fascinating organisms.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

BIO 162 -
Human Heredity
IAI: L1 906 1.1
Human Heredity is designed for the general student who wants to learn more about the principles of human heredity, population genetics, and recent discoveries in genetics including the mapping of the human chromosome 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 travel experience course to study the effects of glaciation, soils and climate on plant and animal communities. Indicator species, stability, and succession of communities are compared. Identification of communities, vegetation, and animals is required, with an emphasis on field study. A one-week field trip is conducted during spring or summer interim.
Prerequisite: None
Credit: 3 semester hours
Lecture: 2 Lab: 2

COURSE DESCRIPTIONS

BIO 166 -
Tropical Ecology
IAI: None 1.1
Tropical Ecology is a travel/field experience that provides a general overview of a wide variety of biological topics including ecology, environmental biology, and natural history as they apply to the specific region visited. Fieldwork will include the collection, identification, and classification of regional plants and animals; observation and analysis of the various ecosystems of the area; discussion of the interaction between the nonliving and living components of the ecosystems encountered; and orientation to the culture of the country visited. Methods of study will include lectures, field excursions, and laboratory exercises at the field station's facilities. Orientation meetings will be required preceding the trip offered in alternate years.
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, transmission, prevention and cures. Topics covered include the causes of disease, the body's response to disease, ways to prevent disease, and specific disorders such as viral diseases, sexually transmitted 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 undertakes a systems-approach, comprehensive study of the human body. Lab emphasizes the interrelationships between structure and function. The course is intended for students in prenursing, prerespiratory therapy, preradiology, physical education, or other fields requiring only one semester of Anatomy and Physiology. Credit for BIO 185 will not be counted toward graduation upon completion of BIO 281 or BIO 282.
Prerequisite: CHM 105 or CHM 110; and either BIO 100 or BIO 103 with a C or better (recommend in the past 5 years)
Credit: 5 semester hours
Lecture: 4 Lab: 2

BIO 205 -
Principles of Biology
IAI: BIO 910 1.1
Principles of Biology is the first required course for pre-professional and life science majors. Emphasis is on broad biological and biochemical concepts including cell structure and function, biochemistry, energy requirements and genetics with special emphasis on laboratory procedures.
Prerequisite: CHM 120 CHM 210; or its equivalent. This is the first of three courses essential for all biology majors (BIO 205, 211, 221).
Credit: 4 semester hours
Lecture: 3 Lab: 3

BIO 208 -
Science in Elementary School: Teaching Evolution
IAI: LI 900 1.1
Science in the Elementary School: Teaching Evolution is a course for teachers which concentrates on the teaching of evolution as a focus for developing inquiry-based science education. It will include evolutionary content, methodologies for teaching evolution in the classroom, and strategies for dealing with the controversy that might arise in the teaching of evolution. Course content is tied to the National Science Education Standards.
Prerequisite: PSY 270 or permission of instructor.
Credit: 3 semester hours
Lecture: 3 Lab: 0

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 211 -
General Botany
IAI: L1901L, BIO 910 1.1
General Botany considers topics such as the plant cells, metabolism, reproduction, evolution, ecology, anatomy, and characteristics of the major taxonomic groups. Ecological adaptations of these groups are emphasized, including their morphological, physiological, and behavioristic features. This is one of three courses essential for all biology majors (BIO 205, 211, 221).
Prerequisite: None
Credit: 4 semester hours
Lecture: 2 Lab: 4

BIO 213 -
Practical Botany
IAI: None 1.1
Practical Botany is designed for students seeking a better general knowledge of plants and their uses. It involves the study of plant structure, seeds, growth regulation, soils, cloning, controlled environments, edible wild plants, natural dyes, landscaping, house plants, natural communities, plant pests, spice-drug plants and new uses of plants. No previous experience with botany is necessary.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 Lab: 0

BIO 221 -
General Zoology
IAI: L1 902L, BIO 910 1.1
General Zoology is designed to introduce life science and preprofessional majors to the broad scope of animal life and zoological principles. Lectures stress evolution and relationships of animal groups, natural history, ecology, and life cycles. Laboratory sessions are devoted to taxonomy and structure of the animals. This is one of the three courses essential for all biology majors (BIO 205, 211, 221).
Prerequisite: None
Credit: 4 semester hours
Lecture: 2 Lab: 4

BIO 274 -
Microbiology
IAI: None 1.1
Microbiology is an introduction to the interrelationships among microorganisms and between them and their living and non-living environments. The broad principles of microbiology illustrated are applicable to a wide range of student interest and may provide a foundation for study in the various divisions of the medical and biological professions.
Prerequisite: CHM 105, CHM 110, or higher CHM course; and either BIO 100, 103, 150, or 205 with a C or better (recommend within 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, 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 endocrine circulatory, lymphatic, respiratory, digestive, urinary, endocrine and reproductive, as well as, fluid and electrolyte balance, and acid base balance.
Prerequisite: BIO 281
Credit: 4 semester hours
Lecture: 3 Lab: 3

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

Botany

– See Biology

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 & 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 required 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 (2 repeats allowed) may be earned up to six hours.
Prerequisite: Current enrollment in the Building Construction Technology 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 2D and 3D 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*

COURSE DESCRIPTIONS

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 2 times, 6 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 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. Primavera "SureTrak"® software is utilized for all computer applications.
Prerequisite: BCM 104 & 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 & BCM 239 or consent of the instructor
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

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 Associate 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 ownership and management, forms of organizations, finance, business ethics, personnel and labor-management relations, 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. Credit may not be earned in both BUS 100 and 103.
Prerequisite: MTH 091 & 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
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
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 macroeconomy 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: MTH 120, 132, 135, or 160; or approval 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.
Pre-requisite: 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 094, 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 Rock Valley College and consent of the instructor or Associate 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
The Global Small Business Incubator is a multi-disciplinary 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: Fifteen (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

COURSE DESCRIPTIONS

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 Beginning Algebra Part II, or equivalent with a grade of "C" or better
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

CHM 105 -
Foundations in Chemistry for Non-Science Majors
IAI: P1 903L 1.1
Foundations in Chemistry for Non-science Majors 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 Associates in Arts (AA) 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 you also complete 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 (Intermediate Algebra, Part II) or equivalent with a grade of "C" or better.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

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 Associates in Arts (AA) degree.
Prerequisite: CHM 099 or high school chemistry (recently taken) with a grade of "C" or better; MTH 094 (Intermediate Algebra PartII) or equivalent with a grade of "C" or better
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; solids; liquids; gases; acids, bases, and salts, and thermochemistry. CHM 120 is generally required for science majors and engineers, and satisfies part of the General Education Physical Science requirement for an Associates in Science (AS) degree.
Prerequisite: Sufficiently comprehensive high school chemistry course (recently taken), or with a grade of "C" or better; MTH 120 (College Algebra) or equivalent with a grade of "C" or better.
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-base theories, thermodynamics, electrochemistry, oxidation-reduction chemistry, coordination chemistry and nuclear 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: General Chemistry I (CHM 120) with a grade of "C" or better
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: General Organic and Biochemistry I (CHM 110) with a grade of "C" or better
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, alkyl halides, cycloalkanes, and unsaturated hydrocarbons, including conjugated and aromatic systems, with emphasis on preparation, reactions, stereochemistry and reaction mechanisms of these and related compounds. Laboratory emphasizes basic techniques used in synthesis and qualitative analysis of organic compounds.
Prerequisite: General Chemistry II (CHM 130) with a grade of "C" or better
Credit: 4 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 emphasizes the study of the chemistry of the fundamental organic functional groups alcohols, ethers, aromatic systems, carbonyl compounds, carboxylic acids and their derivatives, and amines. 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: Organic Chemistry I (CHM 220) with a grade of "C" or better
Credit: 4 semester hours
Lecture: 3 *Lab: 4*

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 processors, spreadsheets 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 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 or Corequisite: CIS 102
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
Recommended: CIS 276
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

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 251 -
Systems Analysis and Design
IAI: None 1.2
Systems Analysis and Design is a study of the phases of systems development and the tools the analyst uses in planning, specifying and implementing a system to solve managerial and organizational problems. Other topics may include documentation, interaction with users, systems security, and an introduction to a CASE tool.
Prerequisite: CIS 180 or CIS 276; or a one semester programming course or equivalent programming experience.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

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 or Corequisite: CIS 102, or consent of instructor.
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

COURSE DESCRIPTIONS

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/C++ Programming
IAI: None 1.2
Visual C/C++ Programming is an extension of CIS 276 Introduction to C/C++ Programming and CIS 277 Advanced C/C++ Programming. This course emphasizes event-driven programming, usually in a GUI environment. Typical topics include design principles and practices, object-oriented and procedural development, GUI design and implementation, data files and database connectivity, subclassing, graphical resources, software project management, multithreading and multitasking.
Prerequisite: CIS 276 or equivalent programming experience.
Recommended: CIS 277 or equivalent programming experience.
Credit: 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 for the current semester 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 Associate 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 Law Enforcement
IAI: None 1.2
Introduction to Law Enforcement 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. Seventy-five hours of internship is required for each hour of credit.
Prerequisite: Successful completion of 12 credits in the criminal justice curriculum. May be repeated for a total of six credits maximum. (Repeatable three times.)
Credit: 1-6 semester hours
Lecture: 1 *Lab: 5-30*

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 281, CHM 110/210, ENG 101, 103, 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 281, CHM 110/210. ENG 101, 103, 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 281, CHM 110/210. ENG 101, 103, 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
IAI: None 1.2
Preclinical Dental Hygiene 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 281, CHM 110/210, ENG 101, 103, and admission into the Dental Hygiene program.
Corequisite: DNT 102, 104, 106, 110, BIO 282
Credit: 4 semester hours
Lecture: 2 *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 281, CHM 110/210, ENG 101, 103, 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, 116, 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 112 Clinical Dental Hygiene 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. Lab time will allow students to practice these skills in order to prepare for their clinical application.
Prerequisite: DNT 102, 104, 106, 108, 110
Corequisite: DNT 112, 114, 116, 118, 120
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

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 282
Corequisite: DNT 112, 113, 116, 118, 120
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

DNT 116 -
Dental Radiology
IAI: None 1.2
Dental Radiology will provide the student with the theory and procedures for exposing and developing various dental films. Theory of the effects of ionizing radiation and safety factors will be addressed. Practical experience on manikins and selected clients is included. Development, identification, mounting and general interpretation is emphasized.
Prerequisite: DNT 102, 104, 106, 108, 110, BIO 282
Corequisite: DNT 112, 113, 114, 118, 120
Credit: 3 semester hours
Lecture: 2 *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. The course also focuses on the fundamental pharmaceutical concepts of local anesthetic.
Prerequisite: DNT 102, 104, 106, 108, 110, BIO 282
Corequisite: DNT 112, 113, 114, 116, 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 282
Corequisite: DNT 112, 113, 114, 116, 118
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

DNT 210 -
Dental Materials
IAI: None 1.2
Dental Materials 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.
Prerequisite: DNT 112, 113, 114, 116, 118, 120
Corequisite: DNT 212, 213
Credit: 3 semester hours
Lecture: 2 *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.
Prerequisite: DNT 112, 113, 114, 116, 118, 120
Corequisite: DNT 210, 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.
Prerequisite: DNT 112, 113, 114, 116, 118, 120
Corequisite: DNT 210, 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, 212, 213
Corequisite: DNT 215, 216, 217, 218, 220
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 will enable the student to perform comprehensive dental hygiene treatment utilizing pain control techniques including intraoral local anesthesia and nitrous oxide/oxygen sedation. Emphasis will be placed on concepts that are essential for safe and effective administration, including neurophysiology, pharmacology, administration techniques, and the management of potential complications associated with local anesthesia administration and nitrous oxide/oxygen sedation.
Prerequisite: DNT 210, 212, 213
Corequisite: DNT 214, 216, 217, 218, 220
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, 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, 212, 213
Corequisite: DNT 214, 215, 217, 218, 220
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 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, 212, 213
Corequisite: DNT 214, 215, 216, 218, 220
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, 212, 213
Corequisite: DNT 214, 215, 216, 217, 220
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, 212, 213
Corequisite: DNT 214, 215, 216, 217, 218
Credit: 3 semester hours
Lecture: 2 *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
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 advanced instrumentation, medically compromised and special needs clients, and dental specialties. The course also prepares students to transition into the role of a practicing dental hygienist, covering topics such as interviewing, resume writing, conflict resolution, and employer-employee roles.
Prerequisite: DNT 214, 215, 216, 217, 218, 220
Corequisite: DNT 224
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

Drama

– See Theatre, 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 113 –
Infant and Toddler Curriculum
IAI: None — Approval Pending 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: 5

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 do total planning for children in a child care setting. Emphasis is on the importance of play and desirable space facilities. **(Offered fall semester.)**
Prerequisite: ECE 101 and two of the following: ECE 103, 104, 106, 107, 108, 201 or 206.
Credit: 3 semesters hours
Lecture: 3 *Lab: 0*

ECE 204 -
Internship – Child Care
IAI: None 1.2
Internship in Child Care provides an opportunity to plan and direct learning activities in a child care facility under supervision. Emphasis is on understanding the role as a member of a teaching team working with children. Weekly seminars, two individual conferences, and written assignments will be required.
Prerequisite: ECE 100, 101, 103, 104, 105, 106, 107, 108, 201, 203, and 206
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*

COURSE DESCRIPTIONS

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, Geology, & 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*

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 200 –
Introduction to Early Education
IAI: None — Approval Pending 1.1
Introduction to Early Education is an introduction to the early childhood profession with an emphasis on best developmentally appropriate practices, professionalism and historical foundations of early education. An overview of theoretical program models, various types of early childhood programs, community resources, the family's role in education, licensing standards and contemporary trends and issues in programs for children ages birth through eight will be covered. Field observations are required.
Prerequisite: None
Credit: 3 semesters hours
Lecture: 2 *Lab: 5*

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 P-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 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. This course serves as the basis for the 100 pre-student teaching observation hours required by the State of Illinois.
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 alternative-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 fuel cells. 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 prepare for the Alternative Energy Integrator Level I Certification examination offered by the Electronics Technicians Association, International.
Prerequisites: MTH 094 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 prepare for the Alternative Energy Integrator Level I Certification examination by the Electronics Technicians Association.
Prerequisites: Credit or concurrent enrollment in EET 105 and EET 141, 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 using CAD software is also covered.
Prerequisite: 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 120, 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
The DC/AC Circuits and Electronics I course develops techniques for circuit analysis using electronics applications. Basic electrical concepts are introduced. Circuit analysis using Ohms' Law, Kirchhoff's voltage, and current laws is explained. Electronic devices such as diodes, MOSFETs, BJTs, and op amps are employed extensively to illustrate applications. Laboratory activities include learning to use digital multimeters, DC power supplies, signal generators, and oscilloscopes. Electronic Design Automation using multisim is used. Laboratory documentation employing Microsoft Word and Excel is explained.
Prerequisite: MTH-094; Credit or concurrent enrollment in MTH 125 (or MTH 100, 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. AC Circuit analysis techniques such as simplifying circuits and the development of equivalent circuits are examined. Electronic devices are used routinely to emphasize circuit analysis applications.
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 Associate Dean. Variable and repeatable credit up to six credit hours may be earned.
Prerequisite: Current enrollment in the Electronic Engineering Technology (EET), completion of at least 25 credits in either EET or SES degree program, and sophomore class standing.
Credit: 1-6 semester hours
Lecture: 0 *Lab: 5-30*

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 students prepare for the Alternative Energy Integrator Level I Certification by the Electronics Technicians Association.
Prerequisites: EET 107; credit or concurrent enrollment in EET 142 and MET 162, or consent of instructor
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

EET 219 -
Fundamentals of Electric Motors and Controls
IAI: None 1.2
Fundamentals of Electric Motors and Controls introduces the fundamentals of DC, single-phase AC, and three-phase AC motors and controls. Topics include: basic magnetic theory, motor characteristics and construction, various types of electromechanical and electronic motor controls, DC and AC generators, transformers, and stepper motors. Lab exercises are coordinated with lecture presentations.
Prerequisite: MET 162, EET 142 and MTH 100 (or MTH 125 or MTH 132); or consent of instructor
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

COURSE DESCRIPTIONS

EET 231 -
Transform Circuit Analysis
IAI: None 1.2
Transform Circuit Analysis reviews DC and AC circuit theory including Thevenin's, Norton's, and the superposition theorem. Mesh and nodal analyses are covered. Waveform descriptions and time-domain solutions are developed. Differential equations are generated and solutions developed using Laplace transform methods. Transform circuit analysis is emphasized. Pole-zero analysis, driving-point impedance, and transfer functions are introduced. Computer assignments using PSpice are required. Circuit concepts are illustrated through classroom demonstrations and laboratory experiments.
Prerequisite: EET 240 and MTH 135; or consent of instructor.
Credit: 4 semester hours
Lecture: 3 *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, EET 135 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

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 course provides more advanced exploration and mastery of the topics introduced in EET 141 and EET 142. Frequency response and power applications are studied. Electronic Design Automation is used extensively to simulate 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, EET 142 and MTH 100 (or MTH 125 or MTH 132); 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 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 component interfacing. The student will be introduced to the programming software used for automated systems. Laboratory work includes interfacing the components properly, and writing programs using CAD software and the robot programming language in group or individual projects.
Prerequisite: EET 141 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 265 -
Audio Electronic Systems
IAI: None 1.2
Audio Electronic Systems introduces the fundamentals of electronic systems for reproduction or reinforcement of sound. This course presents an overview of acoustics and all components of an audio system, including: input transducers (microphones), digital and analog signal processors, amplifiers, and output transducers (loudspeakers). Various analog and digital recording technologies are explored. Laboratory exercises are coordinated with lecture topics.
Prerequisite: EET 240 or consent of instructor.
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. 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 students to passive and active solar heating, direct and indirect systems, open and closed loops. Geothermal systems for heating and cooling are studied. Various earth loops including horizontal, vertical, pond/lake, and open well-water systems are discussed. Heat pump operation is explored. Solar cooling concepts including reflected cooling, convection cooling, and radiation cooling systems are presented. Solar day lighting including reflected, solar tubes, skylights, and clerestory windows are explained. Various local municipal codes, state and national standards and codes are considered. This course helps to prepare students for the Alternative Energy Hybrid System Integrator Level II examination by the Electronics Technicians Association.
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, microcobtrollers, 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
IAI: EGR 941
Engineering Graphics is an introduction to engineering and design. Topics include multi-view orthographic representations, auxiliary projections, dimensioning, section views, basic tolerancing, threads and fasteners, assembly drawings, 2-D production drawings, 3-D solid modeling used for part generation, prototyping and engineering analysis. (Solidworks will be used as modeling software.)
Prerequisite: None
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 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: Credit or concurrent enrollment in MTH 135.
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
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 931 1.1
Engineering Circuit Analysis reviews DC and AC circuit theory including Thevenin's, Norton's, and the superposition theorem. Mesh and nodal analyses are covered. Waveform descriptions and time-domain solutions are developed. Differential equations are generated, and solutions developed by using Laplace transform methods. Transform circuit analysis is emphasized. Pole-zero analysis, driving-point impedance, and transfer functions are introduced. Computer assignments using PSpice are required. Circuit concepts are also illustrated through classroom demonstrations.
Prerequisite: Credit or concurrent enrollment in PHY 225 or consent of instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 3*

English - Developmental ENG

ENG 082 -
Basic English Skills
IAI: None 1.4
Basic English Skills is designed to develop skills in English grammar and language use, as well as enhance background and understanding of a variety of literature, in order to prepare the students for the next level of developmental English.
Co-prerequisite: Students must be concurrently enrolled in RDG 080 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
Essentials of Writing is designed to enhance the development of basic writing strategies with a focus on the writing process. Students will be introduced to strategies for approaching the stages of the writing process and applying these to paragraph modes. ENG 097 is an optional class designed to help students improve their writing to the level necessary for entering ENG 099.
Prerequisite: None
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

ENG 099 -
Introduction to College Writing
IAI: None 1.4
Introduction to College Writing prepares students for writing at the college level. The course requires substantial practice in writing brief, coherent essays that demonstrate critical thinking skills. Students complete 12-16 pages of formal writing during the course of the semester, including both expressive and expository assignments. A significant amount of reading is also required, both to develop language and critical thinking skills and to provide a context for some usage, particularly within the context of students' own writing. 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.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

English ENG

ENG 101 -
Composition I
IAI: C1 900 1.1
Composition I teaches students to write effectively at the college level. Emphasizing writing as a process, this course requires students to write one or more essays of each type: exploratory, expository, and persuasive. Necessary attention is devoted to English grammar and usage. Students are required to write from 16–24 pages during the course.
Prerequisite: Sufficiently high placement test score; a grade of "C" or better in ENG 099, Developmental English.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 103 -
Composition II
IAI: C1 901R 1.1
English Composition II, the second required writing course in a two-semester composition sequence, provides practice with reading and writing. Encouraged to see the power and possibility of language, students learn to responsibly address larger societies of readers. Students will complete research processes, selecting and interacting with sources, culminating in the production of documented, multi-source writing totaling at least 2,500 words. Students will write 16-24 pages during the course.
Prerequisite: A grade of "C" or higher in ENG 101, Composition I.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 105 -
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 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 106 -
Professional Written Communication
IAI: None 1.2
Professional Written Communication provides an overview of the writing techniques necessary for effective written communication in today's workplace. It is designed to be a flexible introduction and review of sentence and paragraph structure, readability, the writing process, and letters, memos, proposals, reports, and other professional documents.
Prerequisite: None
Credit: .5-3 semester hours
Lecture: .5-3 *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 imaginative genres, ranging from fiction to memoir and poetry. Students develop critical judgment as they analyze and discuss their own work, that of their classmates, and that of published writers.
Prerequisite: A grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 110 -
Introductory Technical Writing
IAI: None 1.2
Introductory Technical Writing is the study of objective, analytical report writing in the technical and business fields. The course includes organization, style, and format standards for letters, memos, instructions/procedures, and a variety of reports. Emphasis is on developing problem-solving or investigative reports, and writing processes and procedures.
Prerequisite: ENG 101 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 201 -
Advanced Composition
IAI: None 1.1
Advanced Composition is intended for the student interested in pursuing additional study of the writing of non-fiction prose. The course involves advanced study of both the theory and practice of stylistic analysis.
Prerequisite: A grade of "C" or higher in ENG 101.
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 produce fully-developed works of poetry, and demonstrate an understanding of the critical terminology of the creative writer.
Prerequisite: A grade of "C" or higher in ENG 101.
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 produce fully developed works of fiction, and demonstrate an understanding of the critical terminology of the creative writer.
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 of the essential elements of dramatic art, the structure and formatting requirements of a screenplay or teleplay, and proven principles of visualization, development, revision, completion, and submission of creative dramatic writing. Students will produce fully developed works of drama suitable for stage, cinema, television, radio, and/or the emerging interactive hypermedia.
Prerequisite: A grade of "C" or better in ENG 101.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

ENG 209 - Creative Writing – Literary Non-Fiction
IAI: None 1.1
Creative Writing – Literary Non-Fiction is designed to introduce students to the structure and elements of literary non-fiction and the writing process. Students will demonstrate an understanding of the critical terminology of the creative writer, the essentials of form and structure, and the process of writing for publication including revision, completion, and submission of creative non-fiction writing. Students will produce fully-developed works of non-fiction in genres which may include memoir, diary, personal essay, travel writing, nature writing, and writing of witness. A minimum of 25-30 finished pages of original work is recommended. Journals, a midterm, and a final exam are also required.
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*

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, safety, self-contained breathing apparatus, ladders, and portable fire extinguishers. This course, combined with Essentials of Firefighting II and Essentials of Firefighting III, provide the student with the required training to sit for the Office of the State Fire Marshal Certification Exam for Firefighter II.
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: water supply; nozzles/fire streams, ventilation, rescue, emergency medical care, forcible entry, fire control, and building construction. The course, when combined with Essentials of Firefighting I and Essentials of Firefighting III, will provide the student with the required training to sit for the Office of the Illinois State Fire Marshal Certification Exam for Firefighter II.
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 communications, ropes and knots, salvage, overhaul, fire detection, alarm and suppression systems, fire prevention and public education, hazardous materials awareness, terrorism awareness, and firefighter survival. This course, combined with Essentials of Firefighting I and Essentials of Firefighting II, will provide a student with the required training to sit for the Office of the Illinois State Fire Marshal Certification Exam for Firefighter II.
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*

COURSE DESCRIPTIONS

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 company 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/EMT-Basic
IAI: None 1.2
Emergency Medical Technician/EMT-Basic 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 -
Principles of Aerobic Conditioning
IAI: None 1.1
Principles of Aerobic Conditioning provides the student with the basic concepts of developing an aerobic conditioning program.
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*

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 and volleyball; men's baseball, basketball, golf, and tennis. 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 and volleyball; men's baseball, basketball, golf, and tennis. Students may earn a maximum of two credits for any combination of FWS 176 and FWS177. 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*

COURSE DESCRIPTIONS

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 and General Safety
IAI: None 1.1
First Aid and General Safety teaches the student emergency care for accident victims until the services of emergency personnel can be obtained. Upon completion of this course, students will be trained in the American Red Cross techniques of adult, infant and small child CPR and standard first aid.
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
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 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 and Sport Science
IAI: None 1.1
Introduction to Exercise and Sport 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*

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 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: MTH 094 or MTH 096
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FWS 267 –
Personal Training II-Concepts & Applications
IAI: None 1.2
This 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 221 or 250 or FWS 260
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 221 or 250 or FWS 260 and FWS 270
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 221 or 250 or FWS 260 and FWS 270 and 271
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*

FLD 115 -
Hydraulic Components and Circuits
IAI: None 1.2
The Hydraulic Components and Circuits course is a study of the principles of operation, construction, and functions of hydraulic components. It is designed to provide students with a working knowledge of hydraulic components, auxiliaries, and fluids as they are utilized both singularly and in combination to develop hydraulic circuits.
Prerequisite: FLD 100
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FLD 120 -
Fundamentals of Pneumatics
IAI: None 1.2
The Fundamentals of Pneumatics course is designed to give students an understanding of the elementary principles of pneumatics, methods of control, and air circuits. The history and applications of pneumatics are reviewed. Emphasis is placed on those areas of knowledge required to design and fabricate pneumatic circuits representative of those found in industry. Design of these circuits includes valve selection as well as proper sizing of other components. A comparison is made between pneumatics and hydraulics principles, systems, circuits and components.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

FLD 140 -
Fluid Power Circuits and Systems
IAI: None 1.2
The Fluid Power Circuits and Systems course includes basic concepts of fluid power circuit design and function. It covers open and closed loop systems as well as open center and closed center open loop circuits. The three basic functional types of circuits are discussed: directional control switching, flow control, and pressure control.
Prerequisite: Credit or concurrent registration in MTH 100; FLD 115 and FLD 120 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

FLD 158 -
Fluid Power Seminar
IAI: None 1.2
The Fluid Power Seminar course covers the most recent developments in hydraulics, pneumatics, or electrohydraulic systems. The workshop may cover components, circuits, control logic, computer simulation, fluidics, and hydraulic systems used in robotics.
Prerequisite: None
Credit: .5-6 semester hours
Lecture: .5-6 *Lab: 1-12*

Foreign Language

-See Modern Languages

French

-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 a survey of 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 091 & 092 with a grade of "C" or better, 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 091 & 092 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 091 & 092 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 091 & 092 with a grade of "C" or better, or equivalent.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

GEL 250 -
Field Geology
IAI: None 1.1
Field Geology introduces students to regional geologic features. The focus will vary but can include emphasis on folded mountain belts, volcanic terrains, and fossil-bearing rocks. Rock and fossil collecting may be done in some cases; students taking field geology will gain a greater appreciation of the Earth, and they will acquire enhanced observational skills applicable to any field-based profession and appreciation of using Earth as a laboratory. Topics in related field(s) may be included as applicable. This course will meet three to five times prior to a required seven to 10 day field excursion.
Prerequisite: Sufficiently high placement test score, or completion of MTH 091 & 092 with a grade of "C" or better, or equivalent.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

German

– 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, laboratory experiences, and field trips 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 QuarkXPress.
Prerequisite: GAT 101 or consent of the instructor.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

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, creation, setup, and use of plates, and other 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, 3D effects and live tracing. Projects include technical drawings, artistic renderings and 3D 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 more advanced concepts and applications of preflighting, color separations, impositioning, indexing of multi-page documents, duotones to quadtones, scanning transparencies, and trapping.
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, establishing scanner and monitor color profiles, proofing, and press calibration. Students will learn to develop a system to achieve predictable and consistent color reproduction.
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. Instruction will include the manufacture of paper and inks.
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*

COURSE DESCRIPTIONS

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 105 -
Phlebotomy
IAI: None 1.2
Phlebotomy involves teaching of techniques for the purpose of obtaining blood samples by venipuncture, micropuncture and arterial puncture. Medical and laboratory terminology, anatomy of the circulatory systems, interpersonal communication, laboratory safety, and laboratory clerical procedures are studied.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *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 I
IAI: S2 918N 1.1
History of the Middle East 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 II
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*

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*

HONORS HNR

HNR 101, 102, 201, 202 -
Honors Study I, II, III and IV
IAI: None 1.1
These are required courses to be taken during the student's enrollment in the Rock Valley College Honors Program. Students have options each semester in the sequence by selecting from a variety of projects and including both written and oral presentations.
First-year students will take HNR101 in the fall semester and HNR102 in the spring semester. Second-year students will take HNR 201 in the fall semester and HNR 202 in the spring semester.
Prerequisite: Admission to the Rock Valley College Honors Program
Credits: 0.5 semester hours
Lecture: 0.5 *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*

COURSE DESCRIPTIONS

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 socio-political 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
Intro 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*

Human Services HSR

HSR 101 -
Introduction to Human Services
IAI: None 1.2
Introduction to Human Services provides a basic overview of the human service field, professions, philosophical approach to helping, and how human services agencies are organized and function.
Prerequisite: None
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HSR 102 -
Introduction to Group Processes
IAI: None 1.2
Introduction to Group Processes focuses on building knowledge and skills for effective interpersonal relationships in organized groups. Theories of group dynamics and their relevance for human service workers are presented. The course also focuses on the functioning and dynamics of the interdisciplinary team. Students will experience the group process by working in small groups as part of the course. (Offered spring semester.)
Prerequisite: HSR 101 and ENG 101 or instructor permission
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HSR 110 - Survey of Counseling Theories
IAI: None 1.2
Survey of Counseling Theories is an introductory examination of the major approaches to counseling and how counseling can be used to help people change problem behaviors. It includes discussion of factors in the healthy personality. Applications to treatment of addictions is also covered. (Offered fall semester.)
Prerequisite: HSR 101 and ENG 101 or instructor permission
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HSR 120 - Introduction to Developmental Disabilities
IAI: None 1.2
Introduction to Developmental Disabilities includes an introductory survey of etiologies, characteristics, treatment and prognosis of developmental disabilities. It covers a discussion of the disabled client's psychosocial, neurological, sensorial, intellectual, and physical abilities and disabilities. Includes discussion of the effect on the family and the role of society as it pertains to the developmentally disabled. (Offered fall semester.)
Prerequisite: HSR 101 and ENG 101 or instructor permission
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HSR 140 - Survey of Psychiatric Rehabilitation
IAI: None 1.2
Survey of Psychiatric Rehabilitation focuses on the rehabilitative approach to serving individuals with severe mental illness. The approach is based on the premise that consumers will set goals for the rehabilitation team. The course covers psychiatric disability, current approaches to treatment, the mental health system, vocational and skills training, and family and community support systems.
Prerequisite: HSR 101 and ENG 101 or instructor permission
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HSR 201 - Interpersonal Behavior
IAI: None 1.2
Interpersonal Behavior focuses on building knowledge and skills for effective interpersonal relationships. Experientially structured activities provide students with opportunities to practice the skills learned in class. (Offered fall semester.)
Prerequisite: HSR 101 and ENG 101 or instructor permission
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HSR 203 - Family Services
IAI: None 1.2
Family Services offers an introduction to the multi-problem family and an awareness of the methods used to solve these problems. Included are theories of family dysfunction; how to help families improve how they function; and about systems theories. Addiction and co-dependency are also explored. (Offered spring semester.)
Prerequisite: HSR 101 and ENG 101 or instructor permission
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HSR 205 - Field Placement I
IAI: None 1.2
Field Placement is on a part-time basis in a supervised experience with a cooperating agency selected by the student and the instructor. Students are to have 300 hours of internship to graduate from the program. The last 100 hours of internship will need to be completed through enrollment in HSR 206 Field Placement II. No more than 100 hours of credit can be given for experiences accumulated prior to entrance in the program. Students may register for 1-4 hours of credit a semester. Fifty hours of internship is required for each hour of credit. At least one of the internships must be a 100-hour placement.
Prerequisites: Students without prior, significant human service experience should not take this course until they attain second semester status (12 credits in the Human Services curriculum)
Credit: 1-4 semester hours
Lecture: 1 *Lab: 5-10*

HSR 206 Field Placement II
IAI: None 1.2
Students enrolled in HSR 206 Field Placement II will complete their final 100 hours of internship required for graduation from the Human Services Program. Through this experience they will successfully demonstrate their integration of the human services professional competencies by completing a capstone project drawing on their acquired learning from the Human Services Program's coursework. Students will also take a comprehensive examination which draws on key human services theories, concepts, and methods acquired through the Human Services Program coursework.
Prerequisites: Completion of four credits of HSR 205 Field Placement I with a grade of C or better, AND Completion of 54 of the required 66 credits towards the A.A.S. degree in Human Services OR enrollment in the final semester of the A.A.S. in the Human Services degree requirements.
Credit: 2 semester hours
Lecture: 1 *Lab: 10*

HSR 211 - Interviewing Techniques
IAI: None 1.2
Interviewing Techniques provides a discussion of the theory and practice of skills needed for effective intake interviewing, information gathering, and assisting professionals in their relations with individual clients. (Offered spring semester.)
Prerequisite: HSR 101 and ENG 101 or instructor permission
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HSR 231 - Substance Abuse Treatment
IAI: None 1.2
Substance Abuse Treatment explores methods of intervention and treatment in the field of addiction. Issues to be discussed include assessment, data gathering, report writing, charting, treatment plans, and current approaches to individual and group treatment.
Prerequisite: HSR 101 and ENG 101 or instructor permission
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

HSR 232 - Substance Abuse Rules and Regulations
IAI: None 1.2
Substance Abuse Rules and Regulations explores the governing process concerning substance abuse treatment in the field of addiction. Issues to be discussed include assessment, data gathering, report writing, charting, treatment plans, and current approaches to individual and group treatment.
Prerequisite: HSR 101 and ENG 101 or instructor permission
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

HSR 250 - Special Topics in Human Services
IAI: None 1.2
Special Topics in Human Services is designed to satisfy specific needs or interests of Human Services majors and/or the community. The course topics change as special needs and interests arise.
Prerequisite: HSR 101 and ENG 101 or instructor permission
Credit: 1-6 semester hours
Lecture: 1-6 *Lab: 0*

HSR 260 - Independent Study in Human Services
IAI: None 1.2
Independent Study in Human Services is designed to offer students an opportunity to conduct an individual project or research in areas of special interest in human services. Course requirements are based on the nature of the subject under study.
Prerequisite: Enrollment in the Human Services program, the completion of 12 hours of credit at Rock Valley College, and the consent of instructor or division director.
Credit: 1-6 semester hours
Lecture: 1-6 *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*

COURSE DESCRIPTIONS

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*

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 – 10 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 repeated twice. Students may not earn more than 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 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 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
IAI: HF 908 (approval pending)
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 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 -
Introduction to Poetry
IAI: H3 903 1.1
Introduction to 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 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.
Prerequisites: 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 -
Introduction to Drama
IAI: H3 902 1.1
Introduction to 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 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 -
Introduction to Fiction
IAI: H3 901 1.1
Introduction to 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 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 155 -
Contemporary Literature
IAI: None 1.1
Contemporary Literature is an introductory course involving reading, analyzing, and discussing contemporary literature, and is designed to provide an awareness of post-1945 literary and philosophical trends in poetry, drama, and fiction. 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*

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*

COURSE DESCRIPTIONS

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*

LIT 275 -
Latin American Literature in Translation
IAI: H3 909 1.1
Latin American Literature in Translation surveys representative works illustrating the development of Latin American literature from the Middle Ages to the present with an emphasis on literary movements understood in relation to their intellectual, social and political contexts. Students are not required to have any previous knowledge of Latin American languages or cultures; all works are read and discussed in English. 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 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 Associate 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: 1-3 semester hours
Lecture: 1-3 *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: 30*

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 are presented and practiced. This course provides fundamental print reading principles with emphasis on symbols and other pertinent data.
Prerequisite: MTH 089
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 094
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. Note: This course formerly known as CDT 105.
Prerequisite: MTH-094
Co-requisite in MTH 100, MTH 125, or MTH 132
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.
Note: This course formerly known as QLT 106.
Prerequisite: MTH-094
Credit or current enrollment in MTH 100, MTH 132, or MTH 125

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. Note: This course formerly known as CDT 108.
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.
Note: This course formerly known as AMT 110.
Prerequisite: MTH-089
Co-requisite: MTH 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 089
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 115 –
Introduction to Laser Processes - *IAI: None* 1.2
Introduction to Laser Processes is designed to introduce students to the fundamentals of laser processes used in manufacturing. This course will examine the safety, materials, and processes included in laser technologies used in manufacturing. Students completing this course will be qualified for entry level laser processes manufacturing positions and will meet prerequisites for advanced laser process courses.
Prerequisite: MTH 089
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 120 -
CNC Machine Setup/Operation
IAI: None 1.2
CNC Machine Setup/Operation 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 turning centers and machining centers in the CIM Laboratory. Lecture and laboratory projects emphasize practical problems, demonstrations, and student operations of CNC equipment.
Prerequisite: MTH 089 or consent of instructor.
Credit: 2 semester hours
Lecture: 1 *Lab: 2*

MET 121 -
Fundamentals of CNC Programming (Manual)
IAI: None 1.2
Fundamentals of CNC Programming (Manual) is a study of the fundamentals of computer numerical control programming for machine tools within the manufacturing environment. Emphasis is on application, operation of a CNC program, tooling and machines. Students will write programs and verify them using machine or computer graphics.
Prerequisite: MET 120
Credit: 2 semester hours
Lecture: 1 *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 092
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 094
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 162 -
Applied Physics
IAI: None 1.2
Applied Physics for technical students teaches industrial and technical applications to develop competence in physics and mathematics fundamentals for all technology students. Five major areas of study relating to modern physics for the technician are covered: mechanics, matter and heat, wave motion and sound, electricity and magnetism, and light.
Prerequisite: MTH 094
Credit: 4 semester hours
Lecture: 3 *Lab: 2*

MET 215 –
Laser Processes I
IAI: None 1.2
Laser Processes I is designed to examine different methods of laser cladding. This course will examine important parameters in laser cladding by powder and wire injection. Comparisons between laser cladding and other metallic coating techniques will be identified. This course will include the study of laser cladding properties and equipment used in the process. Safety in laser cladding will be introduced during this course.
Prerequisite: MET 115
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

MET 217 -
Statics
IAI: None 1.2
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, analysis of structures, friction and related topics are also presented.
Prerequisite: MTH 094
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 the buckling of columns. Computer-aided design systems will be incorporated where applicable.
Prerequisite: MET 217
Credit: 1-3 semester hours
Lecture: 1-3 *Lab: 0*

COURSE DESCRIPTIONS

MET 220 -
Mechanisms
IAI: None 1.2
Mechanisms present the study of existing mechanisms, motion characteristics, and the application of mechanism design to provide desired motions. In the motion study, absolute and relative velocities and accelerations are presented. CAM layout is presented in detail as well as the nomenclature and kinematics of gearing. Computer-aided design systems will be incorporated where applicable.
Prerequisite: MTH 094
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

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 218
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

MET 225 –
Laser Processes II
IAI: None 1.2
Laser Processes II is designed to continue an in depth examination of laser cladding process modeling and operation. Terms and laser cladding process physics are calculated and demonstrated through applied lab exercises. Numerical models and parameters are determined through analysis and experiment. Metallurgical parameters and clad-ability are identified. Solidification conditions and material applications used in laser cladding are studies. Safety in laser cladding is further analyzed and demonstrated through lab exercises.
Prerequisite: MET 215
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

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 111 or MET 121
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 consent of instructor.
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 092 or consent of the instructor.
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 092 or consent of the instructor.
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 162, MET 218. 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 Associate Dean is required.
Prerequisite: At least 12 credits in Marketing, previously or concurrently. This course is repeatable three 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 Associate Dean of the Business Division is required.
Prerequisite: Enrollment in one of the marketing curriculums. This course is repeatable three 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
Mass Communication is an introduction to the mass communication process, the major mass media, the used to which the media are put, and the effects of the media on the individual society.
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: 3*

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*

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 256, 257 and consent of instructor.
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

COURSE DESCRIPTIONS

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 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 topics from beginning algebra with additional work in linear equations and inequalities and systems of equations. The course will also cover absolute value equations and inequalities as well as rational expressions and equations. 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 OR appropriate 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 functions, 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 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. 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, or MTH 096S.
Prerequisite: MTH 088 and MTH 089, or equivalent, with a grades of "A" in both OR appropriate math placement score OR consent of instructor.
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. The course will introduce exponential and logarithmic functions if time permits. Credit earned does not count toward any degree, nor does it transfer.
Prerequisite: MTH 088 and MTH 089, or equivalent, with a grades of "A" in both OR appropriate math placement 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, ratio and proportion, similarity, right triangles and the Pythagorean Theorem, circles, perimeter, area, volume, and right triangle trigonometry. 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 OR appropriate math placement score.
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 equivalent, with grades of "C" or higher OR appropriate math placement score.
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: MTM 901 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 -
Precalculus Mathematics
IAI: None 1.1
Precalculus Mathematics 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; conics, parametric equations, and polar coordinates. Students may not earn more than six credits for any combination of MTH 120, 125, and 132.
Prerequisite: MTH 094 and MTH 097, or equivalent, with grades of "C" or higher.
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 functions, limits, continuity, derivatives, applications of derivatives, integrals, exponential and logarithmic functions, and inverse functions.
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. (Typically offered spring semester)
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 Social Sciences is an elementary treatment of topics from differential and integral calculus, with applications in the social sciences and business. Topics included are polynomial and exponential functions and their derivatives, as well as integration. Each of these topics is explored with an eye on its usefulness as a tool to answer questions in those fields of major interest to the students. This course is not intended to apply toward a major or a minor in mathematics.
Prerequisite: MTH 120, or equivalent, with a grade of "C" or higher.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

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 focuses on mathematical reasoning and problem-solving using manipulatives, calculators, and microcomputers. 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. The MTH 216-217 course sequence fulfills the two-course mathematical content requirement for Illinois state certification in elementary teaching.
Prerequisite: MTH 094 and MTH 097, or equivalent, with grades of "C" or higher OR appropriate math placement score.
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 focuses on mathematical reasoning and problem-solving using manipulatives, calculators, and microcomputers. Topics include statistics, probability, basic geometric shapes and their properties, measurement, triangle congruence and similarity, coordinate geometry, and transformational geometry. The MTH 216-217 course sequence fulfills the two-course mathematical content requirement for Illinois state certification in elementary teaching.
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 in life science or social science, or others interested in elementary statistics. This course uses the graphing calculator extensively to place 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 equivalent, with grades of "C" or higher OR appropriate math placement score.
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, parametric equations, polar coordinates and infinite series.
Prerequisite: MTH 135, or equivalent, with a grade of "C" or higher.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

COURSE DESCRIPTIONS

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 equations 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 an introduction to partial differential equations, boundary value problems and Fourier series. (Typically 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, in which systems of equations and matrices are used as vehicles for the discussion of vector spaces, subspaces, independence, bases, dimension, linear transformations, and similarity. The study will also consider applications of these ideas and techniques to selected areas such as linear differential equations, approximation problems (least-squares best fit to data; Fourier series), linear programming (the simplex algorithm), Markov chains, Leontief economic models, genetics, and computer graphics. (Typically offered fall 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*

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 - 12.5enroll 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 Language area 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 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*

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*

COURSE DESCRIPTIONS

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 hours
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
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 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

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 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 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 peform 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
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 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*

COURSE DESCRIPTIONS

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 and clinical settings. (Approved by the Illinois Department of Public Health.)
Prerequisites: Completion of one of the following Reading Tests:
1. College Assessment Test
2. CNA Reading Test
3. TABE Test
4. ACT Exam
Credit: 7 semester hours
Lecture: 4.5 *Lab: 5*

Nursing NRS

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, BIO 274.
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: BIO 185, 274 and PSY 170
Corequisite: FWS 237
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 108, 110, PNU 107,
Corequisite: FWS 237
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 Associate Dean.
PNU 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 212 -
Adult Health Nursing II
IAI: None 1.2
This course focuses on adult clients as individuals and families with alteration in cardiopulmonary function. The use of the nursing process in promoting and restoring health and preventing illness is integrated.
Prerequisite: NRS 213, 215, 232, 234
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

NRS 213 -
Adult Health Nursing I
IAI: None 1.2
This course focuses on the adult clients using the Neuman Systems Model. Emphasis is on metabolic and elimination dysfunction. The use of the nursing process in disease prevention, health promotion, and restorative concepts is integrated.
Prerequisite: ENG 101, NRS 207, 214, 217, 222, 224
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

NRS 214 -
Family and Reproductive Health Nursing
IAI: None 1.2
This course focuses on the client needs from conception through the post-partum period. Emphasis is on the nursing process, health promotion and the prevention of illness. The alterations in health during the reproductive cycle are addressed. Selected aspects of the perioperative nursing role and care are integrated.
Prerequisite: NRS 111
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

NRS 215 -
Child and Family Health Nursing
IAI: None 1.2
This course focuses on the use of the nursing process to meet the needs of children and families. Disease prevention, health promotion, and restorative concepts are integrated.
Prerequisite: ENG 101, NRS 207, 214, 217, 222, 224
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

NRS 217 -
Psychiatric Nursing
IAI: None 1.2
This course focuses on the use of the nursing process to meet the needs of clients experiencing psychiatric disorders and maladaptive behaviors. Emphasis is on the community mental health-illness continuum throughout the lifespan.
Prerequisite: NRS 111
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

NRS 218 -
Adult Health Nursing III
IAI: None 1.2
This course focuses on adult clients as individuals and families with alterations in cognition, sensation, motion, and burn injuries, from emergency care through rehabilitation. Use of the nursing process in promoting and restoring health and preventing illness is integrated.
Prerequisite: NRS 213, 215, 232, 234
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

NRS 222 -
Family and Reproductive
Health Clinical
IAI: None 1.2
This course provides an opportunity to care for the mother and newborn in the context of the family system. Selected experiences are provided in caring for the client in the antenatal, intrapartum, postpartum family from birth through adolescence.
Prerequisite: NRS 111
Corequisite: NRS 214
Credit: 3 semester hours
Lecture: 0 *Lab: 6*

NRS 224 -
Psychiatric Nursing Clinical
IAI: None 1.2
This course 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 assisting the client(s) with problem-solving in selected community mental health settings. Laboratory and selected clinical experiences are provided.
Prerequisite: NRS 111
Corequisite: NRS 217
Credit: 3 semester hours
Lecture: 0 *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 213, 215, 232, 234
Corequisite: 212, 218, 242, NRS 244/or Associate Dean consent.
Credit: 2 semester hours
Lecture: 2 *Lab: 0*

NRS 232 -
Child and Family Health Clinical
IAI: None 1.2
This course focuses on the delivery of care through the use of the nursing process with children and families experiencing alterations in health. Emphasis is on assisting the client system with health problems in selected community settings. Laboratory and selected clinical experiences are provided.
Prerequisite: NRS 214, 217, 222, 224
Corequisite: NRS 215
Credit: 3 semester hours
Lecture: 0 *Lab: 6*

NRS 234 -
Adult Health I Clinical
IAI: None 1.2
This course focuses on the delivery of care through the use of the nursing process with adults experiencing metabolic and elimination dysfunction. Emphasis is on assisting the client with health problems in selected community settings. Laboratory and selected clinical experiences are provided.
Prerequisite: NRS 214, 217, 222, 224
Corequisite: NRS 213
Credit: 3 semester hours
Lecture: 0 *Lab: 6*

NRS 242 –
Adult Health II Clinical
IAI: None 1.2
This course focuses on the application of the nursing process in delivering care to client systems experiencing alterations in cardiopulmonary function. The emphasis of this course is place on the nursing activities of health promotion, clinical competence, communication, collaboration, judgment, and critical thinking in meeting the needs of the client for cardiopulmonary health throughout the adult lifespan. Laboratory and selected clinical experiences are provided.
Prerequisites: NRS 213, 215, 232, 234
Corequisite: NRS 212
Credit: 3 semester hours
Lecture: 0 *Lab: 6*

NRS 244 –
Adult Health III Clinical
IAI: None 1.2
This course focuses on the application of the nursing process in delivery care to adult client systems experiencing alterations in cognition, sensation, motion and burn injuries. Emphasis is on the nursing activities of health promotion, clinical competence, communication, collaboration, judgment, and critical thinking. Laboratory and selected clinical experiences are provided.
Prerequisites: NRS 213, 215, 232, 234
Corequisite: NRS 218
Credit: 3 semester hours
Lecture: 0 *Lab: 6*

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 Associate 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*

Hybrid Online Nursing NUR

NUR 178 – Pharmacology
IAI: None 1.2
Pharmacology focuses on reinforcing the relationship between pharmacologic knowledge and nursing practice. It provides the background needed to understand drugs currentyly on the market, as well as drugs yet to be released. Nursing implications using the nursing process are emphasized.
Prerequisites: Admission to online nursing program, BIO 185 or BIO 281/282; BIO 274
Co-Requisites: NUR 179, NUR 181, FWS 237
Credit: 2 semester hours
Lecture: 2 online *Lab: 0*

NUR 179 –
Fundamentals of Nursing
IAI: None 1.2
Fundamentals of Nursing is a foundation course in the nursing process which introduces the Neuman Systems Model with its emphasis on holistic health of culturally diverse clients. The Systems Model provides an integrated understanding of the client, the environment, health and nursing. Basic skills necessary for implementation of the nursing process will be include.
Prerequisites: Admission to online nursing program, BIO 185 or BIO 281/282; BIO 274
Co-Requisites: NUR 178, NUR 181, FWS 237
Credit: 4 semester hours
Lecture: 4 online *Lab: 0*

NUR 181 –
Fundamentals of Nursing Clinical
IAI: None 1.2
Fundamentals of Nursing Clinical introduces application of the nursing process and the Neuman Systems Model in various settings including long-term care and acute care facilities. Successful mastery of skills in an intensive laboratory setting will be accomplished pror to clinical experiences.
Prerequisites: Admission to online nursing program, BIO 185 or BIO 281/282; BIO 274
Co-Requisites: NUR 178, NUR 179, FWS 237
Credit: 5.5 semester hours
Lecture: 0 *Lab: 11*

NUR 182 –
Medical/Surgical Nursing I
IAI: None 1.2
Medical/Surgical Nursing I develops the use of the nursing process in the care of clients with medical and/or surgical conditions. Core integrated nursing concepts include critical thinking, bio-psychosocial assessment and cultural competence. Selected content includes client cases with alterations in health—fluid, electrolyte, and acid-base imbalances, peri-operative care, immune system disorders, and oxygenation problems.
Prerequisites: Admission to online nursing program, NUR 178, NUR 179, NUR 181, FWS 237
Co-requisites: NUR 183, PSY 170
Credit: 4 semester hours
Lecture: 4 online *Lab: 0*

NUR 183 –
Medical/Surgical Nursing I Clinical
IAI: None 1.2
Medical/Surgical Nursing I Clinical applies the nursing process to clients with medical and/or surgical conditions. Critical thinking, bio-psychosocial assessment and culturally competent care are integrated. Selected clinical experiences include care of clients with fluid, electrolyte, and acid-base imbalances, perioperative interventions, immune system disorders and oxygenation problems are emphasized.
Prerequisites: Admission to online nursing program, NUR 178, NUR 179, and NUR 181
Co-requisite: NUR 182, PSY 170
Credit: 5.5 semester hours
Lecture: 0 *Lab: 11*

NUR 280 –
Family Health Nursing
IAI: None 1.2
Family Health Nursing introduces application of the nursing process to assist all family members to reach optimal levels of wellness. Content ranges from prenatal care through childbirth to care of the child through adolescence. Alterations in health are included.
Prerequisites: Admission to online nursing program, NUR 182, NUR 183
Co-requisite: NUR 281, PSY 270
Credit: 5 semester hours
Lecture: 5 online *Lab: 0*

COURSE DESCRIPTIONS

NUR 281 –
Family Health Nursing Clinical
IAI: None 1.2
Family Health Nursing Clinical introduces application of the nursing process with families both in wellness and alterations in health. Select clinical experiences will be arranged which may include clinics and acute care settings.
Prerequisites: Admission to online nursing program, NUR 182, NUR 183
Co-requisite: NUR 280, PSY 270
Credit: 3 semester hours
Lecture: 0 *Lab: 6*

NUR 282 –
Medical/Surgical Nursing II
IAI: None 1.2
Medical/Surgical Nursing II builds on previous content, with an emphasis on applying the nursing process to multicultural clients with medical and/or surgical conditions. Topics include assessment and interventions for clients with cardiac, hematologic, nervous, musculoskeletal and gastrointestinal problems.
Prerequisites: Admission to online nursing program, NUR 182, NUR 183
Co-requisite: NUR 283
Credit: 3 semester hours
Lecture: 3 online *Lab: 0*

NUR 283 –
Medical/Surgical Nursing II Clinical
IAI: None 1.2
Medical/Surgical Nursing II Clinical builds on previous content, with an emphasis on applying the nursing process to clients with medical and/or surgical conditions. Topics include assessment and interventions for clients with cardiac, hematologic, nervous, musculoskeletal and gastrointestinal problems.
Prerequisites: Admission to online nursing program, NUR 182 & NUR 183
Co-Requisites: NUR 282 & PSY 270
Credit: 3 semester hours
Lecture: 0 *Lab: 6*

NUR 284 –
Professional Roles in Nursing
IAI: None 1.2
Professional Roles in Nursing covers many topics including the history of nursing, development of the profession, ethical and bioethical issues, nursing law and liability, role of the registered nurse, leadership and management, diversity in current practice, and alternative and complementary healing practice.
Prerequisite: Admission to online nursing program, NUR 280, NUR 281, NUR 282, NUR 283
Co-requisite: NUR 285, NUR 286, NUR 287, NUR 288
Credit: 1 semester hour
Lecture: 1 online *Lab: 0*

NUR 285 –
Mental Health Nursing
IAI: None 1.2
Mental Health Nursing uses the nursing process to assess clients and families with physiological, psychological, sociocultural, developmental and spiritual stressors which impact clients' defenses, disturbing their stability. Nursing interventions to assist clients to achieve a state of wellness are emphasized. Community resources for aiding mental health and treating mental illness will be identified.
Prequisite: Admission to online nursing program, NUR 280, NUR 281, NUR 282 and NUR 283
Co-requisite: NUR 286, ENG 103, SPH 131
Credit: 2 semester hours
Lecture: 2 online *Lab 0*

NUR 286 –
Mental Health Nursing Clinical
IAI: None 1.2
Mental Health Nursing Clinical applies the nursing process using primary, secondary and tertiary prevention/interventions in community, acute care and mental health settings..
Prerequisite: Admission to online nursing program, NUR 280, NUR 281, NUR 282, NUR 283
Co-requisite: NUR 284, NUR 285
Credit: 3 semester hours
Lecture: 0 *Lab: 6*

NUR 287 –
Medical/Surgical Nursing III
IAI: None 1.2
Medical/Surgical Nursing III builds on previous content, with an emphasis on applying the nursing process to clients with medical and/or surgical conditions. Topics include assessment and interventions for clients with emergency, sensory, endocrine, integumentary and renal conditions.
Prerequisite: Admission to online nursing program, NUR 280, NUR 281, NUR 282, NUR 283
Co-requisite: NUR 284, NUR 288
Credit: 3 semester hours
Lecture: 3 online *Lab: 0*

NUR 288 –
Medical/Surgical Nursing III Clinical
IAI: None 1.2
Medical/Surgical Nursing III Clinical builds on previous content, with an emphasis on applying the nursing process to multicultural clients with medical and/or surgical conditions. Topics include assessment and interventions for clients with emergency, sensory, endocrine, integumentary and renal conditions.
Prerequisite: Admission to online nursing program
Co-requisite: NUR 284, NUR 287
Credit: 3 semester hours
Lecture: 0 *Lab: 6*

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, record-keeping, 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 microcomputer 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 or to type on a typewriter. 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
Using Microsoft Word and other Microsoft Office applications students improve their document creation and formatting skills by creating complex documents. Students use advanced features of Microsoft Word including merging Word documents with database information, automating documents with macros and forms, and creating Online documents. Emphasis is on producing high quality professional documents. Student's keyboarding speed and accuracy is emphasized with frequent drills and practice.
Prerequisite: PCI 106, grade of "C" or higher.
Credit: 3 semester hours
Lecture: 2 *Lab: 2*

OFF 122 -
Office Technology Practicum
IAI: None 1.2
Using Microsoft Office students create business documents for a simulated company. 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 Word.
Prerequisite: OFF 121, Grade of "C" or higher, or consent of instructor.
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 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 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 180 -
Introduction to Computer User Technical Support
IAI: None 1.2
Introduction to Computer User Technical Support provides an overview of topics relevant to working in the user support industry. Included are sections on people, processes, technology, and information, and how these components come together to support computer users.
Prerequisite: PCI 106 and PCI 206
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

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 spreadsheet and database 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. Advantages and disadvantages of links to a mainframe or minicomputer will be discussed. Students will install a local area network as part of the course.
Prerequisite: CIS 102 or PCT-101
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 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. LAN segmentation and fast Ethernet will also be covered.
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 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-Certification.
Credit: 4 semester hours
Lecture: 4 *Lab: 0*

PCT 222 - Cisco Networking VI
IAI: None 1.2
Cisco Networking VI is the second of four courses designed by Cisco to prepare students for CCNP Certification. This course's possible topics include, but are not limited to, Remote network connectivity, IPsec VPNs, Frame Mode MPLS, Cisco SDM will be utilized in the labs. Cisco Device hardening, IOS Threat defense.
Prerequisite: Must have successfully completed PCT 120 – PCT 126 or have equivalent work experience and the 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 271 -
Advanced UNIX/Linux
IAI: None 1.2
Advanced UNIX/Linux is the second of two courses on the UNIX/Linux operating system. Topics to be covered will include Kernel tuning techniques, networking, GUIs, advanced script files, and system administration topics.
Prerequisite: PCT 270 or equivalent experience.
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, PIX /ASA firewalls, PIX /ASA firewall AAA authentication and PIX/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

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 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, Ilsam, 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

COURSE DESCRIPTIONS

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: abortion, homosexuality, corporal punishment, capital punishment, obligations in times of famine, animal rights, and civil disobedience.
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*

Photography

– See Graphic Arts Technology

Physical Education

– See Fitness, Wellness, and Sport

Physical Science

– See Astronomy, Chemistry, Geology, 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 091 & 092 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 091 & 092 with a grade of "C" or better, or equivalent.
Credit: 4 semester hours
Lecture: 3 *Lab: 3*

PGE 203 -
Global Environmental Change
IAI: None 1.1
Global Environmental Change is an interdisciplinary, scientific examination of the Earth's continually changing environment. The course explores the structure and interrelationship among the Earth's geologic, biologic, and physical-chemical systems from both a contemporary and historical perspective, and it addresses the potential environmental effects of human-induced modifications to those various systems. Contemporary environmental issues are discussed in detail from an Earth Systems perspective.
Prerequisite: Sufficiently high placement test score, or completion of MTH 091 & 092 with a grade of "C" or better, or equivalent.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

PGE 240 –
Global Climate Change
(ICCB approval pending)
IAI: P1 905 (IAI approval pending) 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. Recommend: 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", concurrent enrollments in MTH 235. Recommended one year of high school physics, or PHY 201.
Credit: 5 semester hours
Lecture: 4 *Lab: 3*

PHY 225 –
Electricity, Magnetism, Light and Modern Physics
IAI: None 1.1
Mechanics, Wave Motion and 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 904N 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*

Practical Nursing PNU

Nursing programs

(815) 921-3261

PNU 103 -
Practical Nursing: Fundamentals
IAI: None 1.2
Practical Nursing: Fundamentals introduces nursing principles, techniques, and interventions and focuses on the use of the nursing process to meet the needs of clients utilizing concepts from Neuman's Systems Theory. Therapeutic communication skills are integrated throughout the course. The clinical nursing laboratory and selected clinical experiences in community settings are provided concurrently.
Prerequisite: Admission to the Practical Nursing program and BIO 185.
Corequisite: PSY 170, PNU 107, FWS 237
Credit: 7 semester hours
Lecture: 4 *Lab: 6*

PNU 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 092, or two semesters of high school algebra in the past five years.
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

PNU 120 -
Nursing Throughout the Lifespan: Mental Health
IAI: None *1.2*
Nursing Throughout the Lifespan: Mental Health focuses on the use of the nursing process to meet the needs of the client experiencing mental disorders utilizing concepts from Neuman's Systems Theory. The mental health aspects of growth and development are presented, as are common mental disorders specific to the child and through the middle adult years.
Prerequisite: PNU 103, PNU 107, PSY 170
Corequisite: ENG 101
Credit: 1 semester hour
Lecture: 1 *Lab: 0*

PNU 140 -
Nursing Throughout the Lifespan: Conception Through Adolescence
IAI: None *1.2*
This course focuses on the use of the nursing process to meet the needs of the client from conception through adolescence. Selected clinical experiences in community and acute care settings are provided concurrently.
Prerequisite: PNU 103, PNU 107, PSY 170
Corequisite: ENG 101, PNU 120
Credit: 6 semester hours
Lecture: 3 *Lab: 6*

PNU 160 -
Nursing Throughout the Lifespan: Young Adult Through Middle Adulthood
IAI: None *1.2*
Nursing Throughout the Lifespan: Young Adult through Middle Adulthood focuses on the use of the nursing process to meet the needs of the client from young adulthood through middle adulthood utilizing concepts from Neuman's Systems Theory. The normal physiologic and psychosocial aspects of growth and development are presented, as are common illnesses specific to the young adult through middle years. Selected clinical experiences in the acute care setting are provided concurrently.
Prerequisite: PNU 103 and PNU 107
Corequisite: ENG 101, PNU 120
Credit: 6 semester hours
Lecture: 3 *Lab: 6*

PNU 201 -
Nursing Throughout the Lifespan: Geriatric
IAI: None *1.2*
Nursing Throughout the Lifespan: Geriatric focuses on the use of the nursing process to meet the needs of the elderly utilizing concepts from Neuman's Systems Theory. The normal physiologic and psychosocial aspects of aging are presented as are common illnesses affecting the elderly. Selected clinical experiences in community settings are provided concurrently.
Prerequisite: PNU 160
Credit: 6 semester hours
Lecture: 3 *Lab: 6*

COURSE DESCRIPTIONS

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 learning, motivation, perception, emotion, personality, and adjustment.
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

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 and Study Skills Improvement
IAI: None 1.4
Reading and Study Skills Improvement emphasizes improvement of the reading process and study skills necessary for understanding and learning college-level material. Students will become proficient in the use of strategies to further the development of comprehension, effective reading of college textbooks, lecture, notetaking, vocabulary, and recreational reading. Special placement based on entrance assessment scores; or on a voluntary basis.
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 or instructor permission.
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 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 or instructor permission.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

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 or instructor permission
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*

COURSE DESCRIPTIONS

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 132, 221, 222 with minimum grades 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 scheduled experiences for intubation, home care, and other special 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 provides an analysis and evaluation of selected social problems peculiar to contemporary American society. Sociological principles and concepts will be the basic tools for analysis. The student will have an opportunity to engage in research on a problem of their choice.
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 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 instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SOC 294 -
Urban Sociology
IAI: None 1.1
Urban Sociology is the study of the historical development, growth, nature, structure and function of the city. Emphasis is placed on social relationships and social institutions in the city. The patterning of metropolitan areas, the process of ghettoization, suburbanization, and the ecology of the city are covered.
Prerequisite: SOC 190 or consent of instructor.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

SOC 295 -
Racial and Ethnic Relations
IAI: S7 903D *1.1*
Racial and Ethnic Relations presents an analysis of the origins, causes and theoretical explanation of prejudice, discrimination and stratification as related to racial and ethnic groupings in American society. The course deals with the impact of conflict and socio-cultural changes on majority-minority relations and current trends in ethnic/racial identity. In addition, race and ethnic relations worldwide will also be discussed.
Prerequisite: SOC 190 or consent of 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 Communications
IAI: None 1.1
Interpersonal Communications 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*

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 230 -
Fundamentals of Oral Interpretation of Literature
IAI: TA 916 1.1
Fundamentals of Oral Interpretation of Literature is a basic introduction to the experience of literature through reading aloud and listening to varied genres of prose, poetry, and drama. Interrelationships between literature, reader, and listener are examined to improve oral recitation.
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. 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
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 Coordinator of First Year Experience.
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 102 -
Library Learning Resources: Business
IAI: None 1.1
Library Learning Resources: Business is designed to acquaint students with a variety of sources for business research in both print and electronic formats. Topics include: company research, industry information and government resources. Students will have the opportunity to search online databases and print resources.
Prerequisite: None
Credit: 1 semester hour
Lecture: 1 *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 surgical technology including the role and function of the central supply 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.
Prerequisite: Admission to the Surgical Technology program.
Corequisite: BIO 274, ENG 101, SRG 102
Credit: 4 semester hours
Lecture: 2 *Lab: 2*

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. Concurrent clinical practice in selected surgical facilities is required.
Prerequisite: Admission to the Surgical Technology program.
Corequisite: SRG 101
Credit: 6 semester hours
Lecture: 2 *Lab: 6*

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.
Prerequisite: SRG 102
Corequisite: SRG 104, SRG 106
Credit: 5 semester hours
Lecture: 2 *Lab: 6*

COURSE DESCRIPTIONS

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.
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 20 to 40 hours a week of experience working in the surgical technologist's role in selected surgical sites.
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 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.
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 121 -
Performance of Literature
IAI: TA 916 1.1
Performance of Literature is designed to increase the student's understanding of the study and performance of literature, such as essays, letters, novels, poetry and short stories with an emphasis on using voice and movement to interpret the works and communicate that interpretation to an audience. Students will study literary theory, literary analysis, the relationship between the text and the performer and the development of movement and vocal skills. The emphasis is on developing the student's interpretation skills through the performance of selected literature.
Prerequisite: None
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

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*

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 Information Technology WEB

WEB 101 -
Programming Related
to the Internet
IAI: None 1.2
This course is designed for students and professionals interested in learning how to design and develop Web pages and Web sites. 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 Web site development, rather than single Web page development. This course includes cascading style sheets, server-side includes, dynamic HTML, the use of HTML code generators and Web graphics to create a Web site, and may also include new topics as they arise, such as XML. This course also introduces both client and server-side Web scripting.
Prerequisite: WEB 101 or equivalent Web development experience.
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, 111
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

WEB 115 -
Introduction To Digital Imaging
IAI: None 1.2
In this course, students will become familiar with the work environment of a currently popular digital imaging product, such as Photoshop. Students will learn about tools and palettes, working with selections, layers, masks, channels, retouching, effects, color management, and creating images for print or the Web. Additional topics include the context-sensitive options bar, layer sets and layer styles, weighted optimization, image and text warping, and support for vector-based art. Students will also learn how to create slices, rollovers, and animations.
Prerequisite: Must be concurrently enrolled or should have successfully completed WEB 101 or have equivalent Web development experience.
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: CIS 102
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 Web site 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, 102, and completion or current enrollment in CIS 254 or 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 Web sites 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 102.
Credit: 3 semester hours
Lecture: 3 *Lab: 0*

COURSE DESCRIPTIONS

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 Web sites. Students will be expected to build a Web site that includes complex programming logic and control structures as well as a variety of visual effects.
Prerequisite: Must have completed WEB 101 and 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 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 Web site that includes complex programming logic and control structures as well as a variety of data structures.
Prerequisite: Must have completed WEB 101 and 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 102 required. Completion of WEB 230, 233, and 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 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 WLD 151, 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: WLD 100 or WLD 151, or consent of instructor.
Credit: 3 semester hours
Lecture: 1 *Lab: 4*

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 151, 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: WLD 100 or WLD 151, 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 WLD 151, 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 WLD 151, 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.
Prerequisite: Industrial experience or completion of welding courses in the processes area of study, or consent of instructor.
Credit: 1-5 semester hours
Lecture: 2 *Lab: 6*

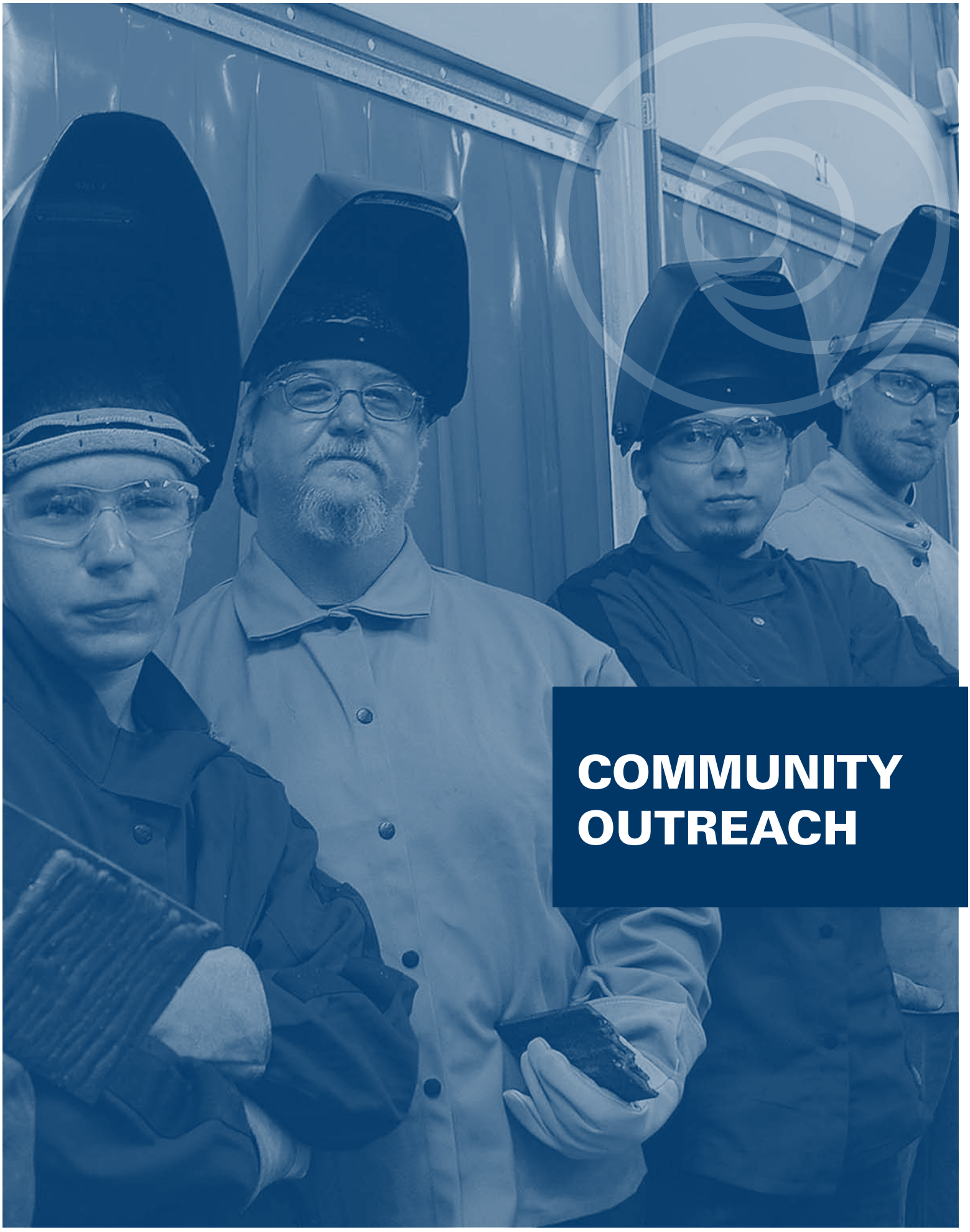
WLD 181 -
Special Topics Welding
IAI: None 1.2
Special Topics Welding is designed to satisfy topics or special interest in a particular area of welding. Topics will vary from semester to semester. This course may be repeated three times.
Prerequisite: Consent of the instructor is required.
Credit: 1-3 semester hours
Lecture: 3 *Lab: 0*

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*

Zoology

– See Biology

COURSE DESCRIPTIONS



COMMUNITY OUTREACH

COMMUNITY OUTREACH

Community Outreach at Rock Valley College offers district residents a variety of informal programs that are cultural and recreational, as well as educational. These programs are an outreach arm of the College and intended for persons of all ages. Programs include Business Outreach, Center for Learning in Retirement, Community Education, Continuing Professional Education, Employment and Grant Programs, Starlight and Studio Theatres, Traffic Safety, Small Business Development Center, Procurement Technical Assistance Center, and TECHWORKS at EIGERlab.

Business Outreach

Business and Professional Institute –

Through the Business and 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 on main campus, a state-of-the art facility designed to provide clients with comfort and the latest technology. The BPI offers on-site training sessions, customized training and programs in the following areas:

- Truck Driver Training
- Management Institute, Manufacturing Technology
- Technical Training, Satellite Programming
- Best Manufacturing Practices Center of Excellence;
- Call (815) 921-2071 for more information.

Office of Employment and Grants

Rock Valley College, Office of Employment and Grants is located at the Illinois Employment and Training Center at 303 North Main Street. This office offers a variety of grant program services to dislocated workers, public aid recipients, along with the Refugee and Immigrant program in the Rockford and surrounding area. Services vary from program to program but generally assist eligible participants with career testing and counseling, job readiness skills, and job search assistance. Several programs offer training options including on-the job training opportunities. For more information, contact the Office of Employment and Grants at (815) 921-2200.

PTAC

The Illinois Procurement Technical Assistance Center at Rock Valley College, located at the EIGERlab, is part of a nationwide program to provide businesses with the marketing know-how and technical tools they need to obtain and perform successfully on federal, state and local government contracts. The mission includes creating and retaining jobs, fostering competition and lower costs for the government, helping to sustain our industrial base and armed forces readiness. For details, call the PTAC at (815) 921-2091 or go to the website: www.rockvallycollege.edu/ptac

SBDC

The Illinois Small Business Development Center at Rock Valley College, located at the EIGERlab was developed to aid new and established small business. Our SBDC offers counseling for all phases of your business life from start-up to expansion, day-to-day problems and selling of the business when you retire. We can advise you in a wide range of topics such as starting your business, drafting a business plan, marketing ideas, accounting/payroll/tax questions, where to find government assistance, loan sources, human resources and hiring, and on to business expansion and selling the business. For more information, call the SBDC at (815) 921-2081 or go to our website: www.rockvalleycollege.edu/sbdc

Community Education Outreach

Center for Learning in Retirement, Community Education, Continuing Professional Education, and Traffic Safety are housed within CEO.

Center for Learning in Retirement

The Center for Learning in Retirement is a membership organization open to retired and semi-retired adults 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. Classes meet only during the day. There are no tests, no grades, no compulsory attendance and no homework. Looking for adventure? There are chartered day trips each month to nature preserves, arboretums, art exhibits, and the theater. Classes are held on the campus of Rock Valley College and various sites off campus. For more information concerning this exciting lifelong learning opportunity, call (815) 921-3931.

Community Education

Community Education offers courses that help you learn a new hobby or skill, enjoy leisure and recreational activities and benefit from personal enrichment courses. Virtually anyone can take these non-credit courses; there are no entrance exams and no diploma requirements. Courses are offered at convenient times and locations. Courses are categorized into several distinctive groups: Art, Communications and Writing, Cooking, Crafts/Hobbies, Dance, Finance, Fitness, Garden and Nature, Health/Wellness History, Home, Image/Etiquette, Language, Music, Pets/Animals, Photography, Psychology, Recreation/Sports and Special Interest. Children's and teen's courses include art, cooking, dance, drama, fitness/wellness, language, sports and special interest.

The Whiz Kids program, established in 1980, is a summer enrichment program that provides challenging educational experiences to all children grades K-8. Classes are taught using fun, hands-on learning techniques. Sport Camps for children, grades three through 12, include baseball, basketball and volleyball. The courses listed above are provided in the Community & Continuing Education schedule that is published each semester. For more information, contact the Community Education Outreach office at (815) 921-3900.

Continuing Professional Education

Continuing Professional Education offers non-degree programs for professionals seeking continuing education in their field. CPE certificate courses are available to help individuals in their general professional development, career advancement, and preparation for national and state certification and licensing exams. Designed as short-term, non-degree alternatives, these programs do not require an entrance exam for admission. These courses are not transferable toward a college degree, but in some cases, may be articulated to credit programs and used toward an A.A. or A.S. degree. A student still in high school (age 16-17) may be admitted to CPE credit courses upon written consent of the chief executive officer (or designee) of the high school district in which the student resides.

RVC Skills Certificates are offered in Word, Excel, Access, PowerPoint, Automation Skills Training, and Integrated Systems Technology.

NOTE: See the Community and Continuing Education schedule for current offerings. For more information about Continuing Professional Education opportunities at RVC, contact the CPE office at (815) 921-3900 or go to our Web site: www.rockvalleycollege.edu/cpe

Traffic Safety

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, contact the Traffic Safety program office at (815) 921-3940.

Theatre and Arts Park Starlight Theatre

Since 1967, when Finian's Rainbow was staged on the College lawn, Rock Valley College has brought affordable, outdoor summer musical theatre to residents of the district. Today, performances are in the college's newly remodeled Bengt Sjostrom Theatre, which the Chicago Tribune's Architecture Critic calls "an engineering wonder" which features a one-of-a-kind, articulated, opening 70-foot star-shaped roof. Starlight Theatre is one of the nation's largest professionally produced community theatres. Starlight Theatre, the 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, crew members and audiences of more than 38,000 each season. Starlight produces big 1930's scale musicals with casts sometimes reaching into the hundreds!

Starlight has a distinguished roster of alums which include some of the nation's most gifted performers and technicians including Rockford's New American Theatre founder J. R. Sullivan, Broadway Star and Walt Disney's voice of The Little Mermaid, Jodi Mazorrati Benson; Broadway and London's West End Star, Marin Mazzie; Hollywood's How The Grinch Stole Christmas, Art Director, Dan Webster; Co-Executive producer of HBO's Six Feet Under, Bob Greenblatt; and Broadway Director and Star, Joe Mantello among many others.

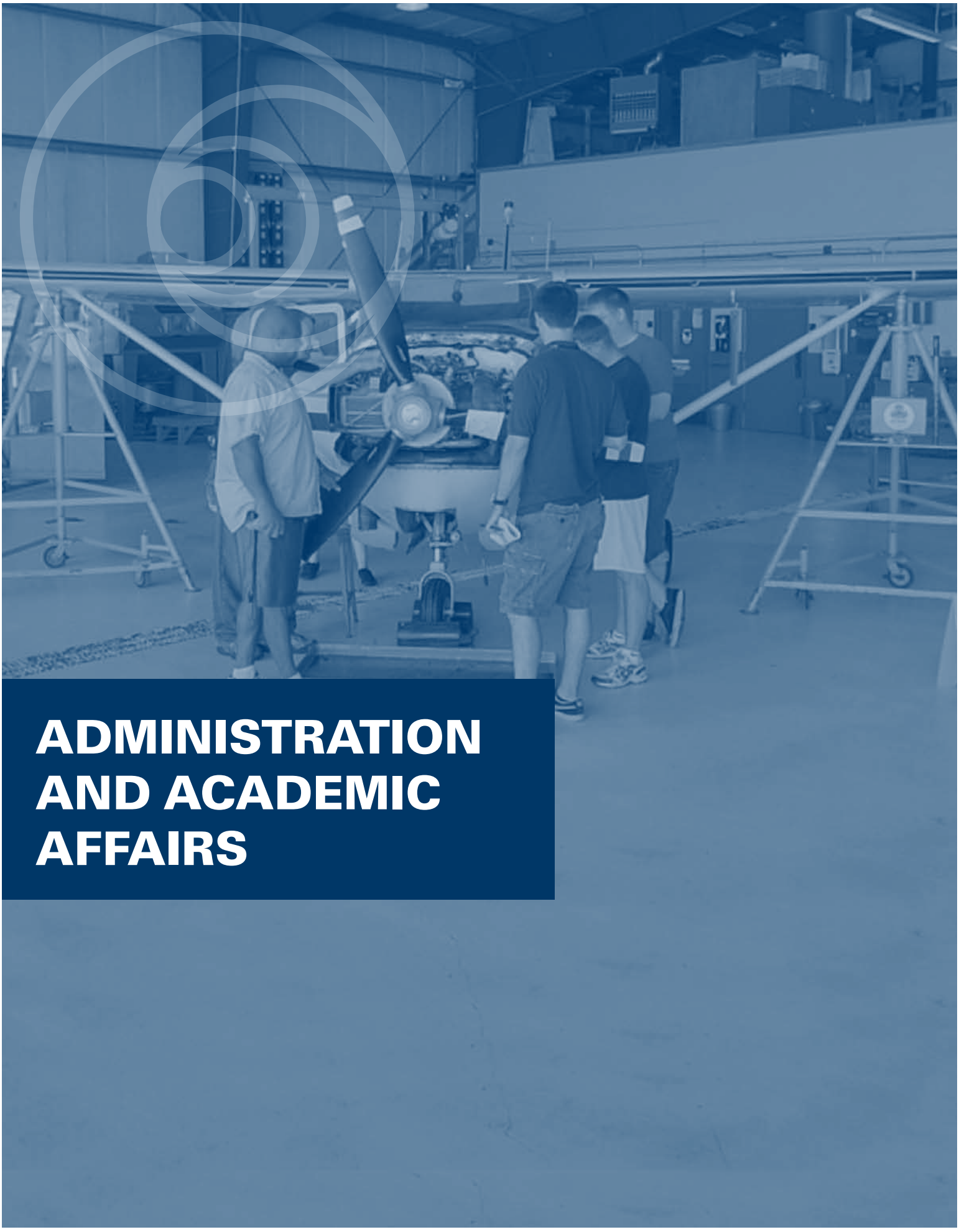
Studio Theatre

During the fall and spring semesters, Rock Valley College sponsors a Studio Theatre program, which gives students and area actors the opportunity to perform with guest professionals. Performances are held in the College's Studio Theatre and is committed to producing the entire Shakespearean Canon of plays and also has an original works program, which finds talented playwrights and commissions new plays. Recent World Premiere's include Lent, the Musical, Pearl's Jam, Crossing Bridges, The Lake, Kite's Book: Tales of an 18th Century Hitman, and Christmas with the Conroys. April is Murder Mystery Month in the Studio, where we are committed to staging all of the great plays by Agatha Christie. For more information about Theatre at Rock Valley College, call (815) 921-2160.

The EIGERlab

The EIGERlab, in partnership with Rock Valley College, is a centrally located, state of the art, mixed-use incubator. Focused to assist start up, early stage growth and expanding existing business, EIGERlab serves as a one-stop resource for entrepreneurs and innovators. We assist in the development of a robust and diverse entrepreneurial culture through the collaboration of education, business and government. For more information visit www.eigerlab.org or call 815.921.2054

TECHWORKS, located in the EIGERlab in Rockford, IL, provides a 96-hour Fast-Track skills training that leads to NIMS credentials (National Institution for Metalworking Skills), TECHWORKS has credentialed more than 90 employees. Our training partners along with Rock Valley College include Sandvik Coromant, NIMS and HTEC (Haas Technical Education Centers) and we work to give each individual the skills for advanced manufacturing. We also hold "KIDSWORKS" camps n the summer with our partner "Nuts, Bolts and Thingamajigs." For more information visit www.techworksprograms.org or call 815.921.2054



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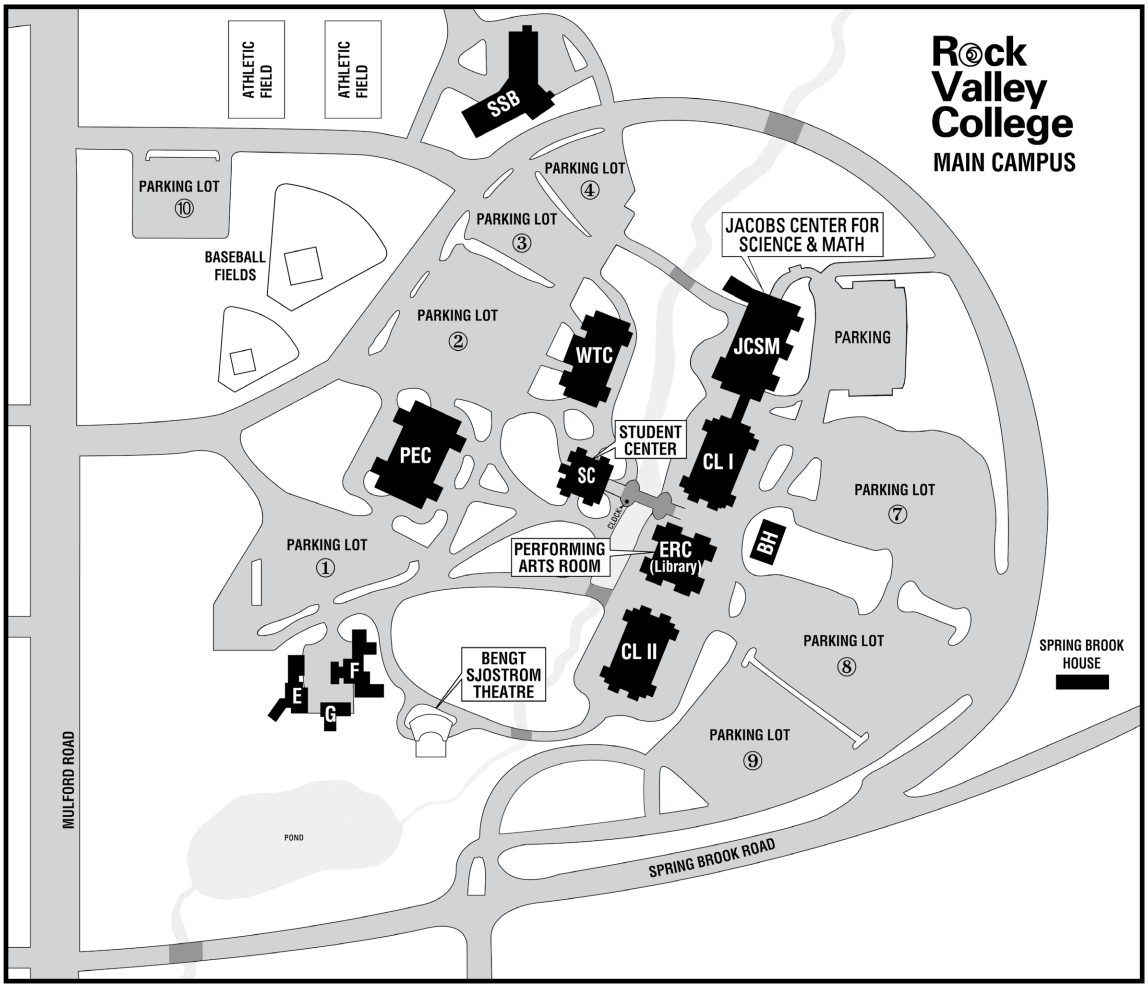
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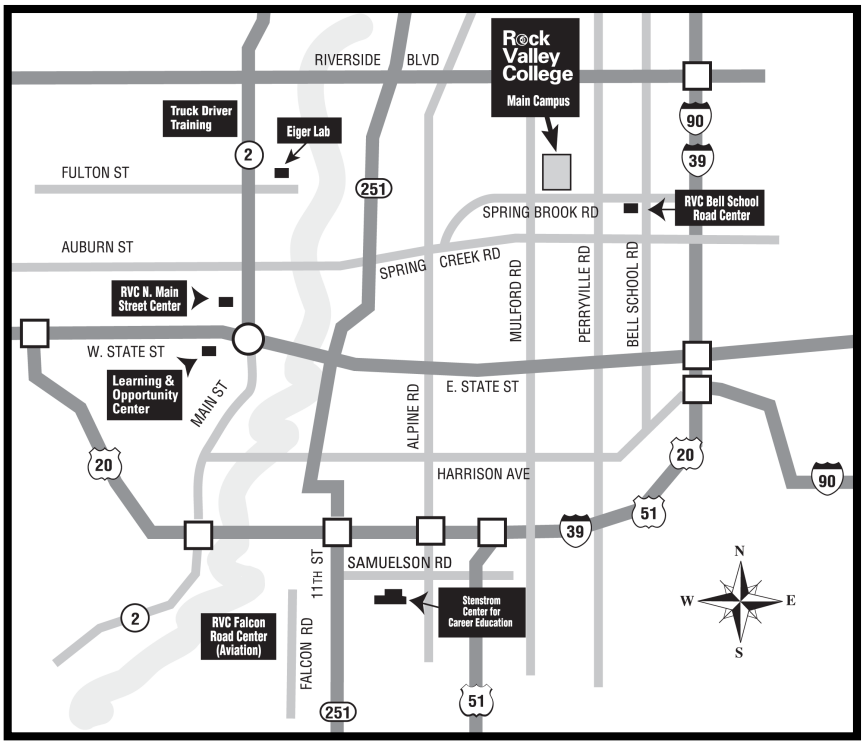
MAIN CAMPUS
ATHLETIC FIELD
ATHLETIC FIELD
SSB
PARKING LOT ⑩
PARKING LOT ④
PARKING LOT ③
BASEBALL FIELDS
JACOBS CENTER FOR SCIENCE & MATH
PARKING LOT ②
WTC
JCSM
PARKING
PEC
STUDENT CENTER
SC
CL I
PARKING LOT ⑦
PARKING LOT ①
PERFORMING ARTS ROOM
ERC (Library)
BH
CL II
PARKING LOT ⑧
SPRING BROOK HOUSE
BENGT SJOSTROM THEATRE
E
F
G
PARKING LOT ⑨
MULFORD ROAD
POND
SPRING BROOK ROAD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SPRING BROOK RD
RVC Bell School Road Center
SPRING CREEK RD
MULFORD RD
PERRYVILLE RD
BELL SCHOOL RD
RVC N. Main Street Center
W. STATE ST
Learning & Opportunity Center
MAIN ST
E. STATE ST
ALPINE RD
HARRISON AVE
SAMUELSON RD
11TH ST
FALCON RD
RVC Falcon Road Center (Aviation)
Stenstrom Center for Career Education
N
W
E
S
2
251
90
39
20
51

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