

Southwest Virginia Community College

Guided Pathways System (GPS) 2017 - 2018



Richlands, VA

Southwest Virginia Community College

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SWCC Homepage

Southwest Virginia Community College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award the associate degree. Contact the Commission on Colleges at (1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500) (Note: Inquires to the Commission should relate only to the accreditation of SWCC, and not for general admission information)

IMPORTANT NOTICE:

Southwest Virginia Community College provides its website, catalog, handbook, and any other printed materials or electronic media for your general guidance. The college does not guarantee that the information contained within them, including, but not limited to, the contents of any page that resides under the DNS registration of www.sw.edu is up-to-date, complete and accurate, and individuals assume any risk associated with relying upon such information without checking other credible sources, such as a student's academic advisor. In addition, a student's or prospective student's reliance upon information contained within these sources, or individual programs catalogs or handbooks, when making academic decisions does not constitute, and should not be construed as, a contract with the college. Further, the college reserves the right to make changes to any provision or requirement within these sources, as well as changes to any curriculum or program, whether during a student's enrollment or otherwise. Links or references to other materials and websites provided in the above-referenced sources are also for information purposes only and do not constitute the college's endorsement of products or services referenced.

SWCC GUIDED PATHWAYS SYSTEM (GPS)

WELCOME to Southwest Virginia Community College

Southwest Virginia Community College (SWCC), a comprehensive two-year institution, provides quality educational and cultural enrichment opportunities for lifelong learners, workforce and community.

SWCC was established as a part of a statewide community college system. It serves the counties of Russell, Dickenson (partial), Tazewell and Buchanan. SWCC has been approved by the State Council of Higher Education for Virginia to offer the associate degree and is accredited by the Commission on Colleges of the Southern Association of College and Schools (SACSCOC) to award the associate degree.

Please be aware that this publication is **not** the SWCC Catalog and Student Handbook, which can be found online at the college's website, www.sw.edu. This publication is intended to give you a snapshot view of the programs the college has to offer. Detailed program information, policies, and procedures may be found in the online catalog, and you should refer to that document for more specific details.

SWCC offers a variety of associate's degrees, diplomas, certificates, and career studies certificates in academic fields ranging from nursing to machine technology. Program length varies from one semester up to two years for the average associate's degree program. Many of our students complete an associate's degree and one or more certificate programs during their time at SWCC.

SWCC has been recognized nationally for its excellence, its affordability, and its success in graduating students from their chosen programs in a timely manner. Please take time to look through this publication and decide how Southwest Virginia Community College can assist you in achieving your career goals.

Again, welcome to Southwest Virginia Community College. Transforming lives, strengthening the community and inspiring excellence is what we are all about, and we want you to succeed in your studies, your career, and your life.



YOUR STEPS TO SUCCESS

Step 1: Apply to SWCC

Complete your application online at www.sw.edu. You will then be assigned a unique username and student emplID# that you will need to register for classes moving forward. You may also complete a paper application, available in Admissions, Tazewell Hall, Room 112.

Step 2: Provide Transcripts

“Official” high school, GED, and/or college transcripts must be submitted for your educational records. These can be brought to Admissions in Tazewell Hall, Room 112 or mailed to:

Attention: SWCC Admissions

PO Box SVCC

Richlands, VA 24641

*Please note: It is not necessary to request transcripts from other Virginia Community Colleges.

Step 3: Apply for Financial Aid by Filling out FAFSA

Complete a FAFSA application online at www.FAFSA.ed.gov. This must be complete before you can be awarded any other scholarships available through SWCC. The FAFSA does require extensive financial documentation, so please get an early start!

Step 4: Determine English and Math placement.

You may do one of the following

1. Take the Virginia Placement Test (VPT). *Access prep materials at sw.edu/home/admissions/assessment-testing.
2. Submit your official high school transcript *with standard GPA calculation* to the Admissions office. Your GPA and courses taken will be evaluated to determine the English and math courses needed at SWCC, based on your program choice.
3. Submit official SAT or ACT scores to Admissions. Information regarding current scores accepted for college placement can be found online at sw.edu/home/admissions/assessment-testing.

The VPT is administered on campus in Dellinger Hall, room 215, Monday-Friday and must be started before 2:30pm. Call 276.964.7706 to schedule your test. Please allow up to 4 hours to complete the test.

You may have to enroll in developmental courses, which do not count towards your credential, but are needed to prepare you for program requirements. These courses are financial aid eligible.

***Important: VPT placement scores are valid 5 years from testing date. You are allowed one retest per year, provided you do not enroll in developmental coursework prior to the retest.**

Step 5: Meet Your Student Success Advisor and Register

Once you have completed step 4, you will need to meet with your faculty advisor. You can view this information in SIS, or contact Admissions and ask who your advisor is. Your faculty advisor can help you explore career and program selection options before you register for your first semester. They will also work with you to ensure that your courses are all eligible for financial aid.

Step 6: Who Are You?

Student ID:

Go to the library in Dellinger Hall to get your free student ID photo taken. This ID will give you access to SWCC library services, bookstore purchases, and student discounts with area retailers. This will also be required if you have to take tests in the Testing Center, located in Dellinger Hall, Room 107.

Parking Decal:

Students must display a parking decal in order to park on campus. The form is available in Admissions, Tazewell Hall, Room 112 and the cost is included in your tuition and fees. Students who do not display the parking sticker may be subject to parking tickets and fines.

Four County Transit

For students who do not drive, bus information and schedules may be obtained in the Financial Aid Office, Room 104 in Tazewell Hall.

Step 7: Pay for Classes

If you are eligible to receive Financial Aid, you must work closely with the Financial Aid staff to ensure that you get the maximum amount of funding and that all of the required documentation is in place.

If you are not eligible to receive Financial Aid or if you have a balance due after Financial Aid has been disbursed, payments may be made online when you register, or with the Cashier in Tazewell Hall, Room 112. Please contact the Business Office for current payment plan options at 276.964.7215.

The SWCC Educational Foundation offers many **scholarships** for SWCC students. Visit sw.edu/scholarships/ for more information and deadlines to apply.

SWCC appreciates our service men and women. Veterans and their dependents may be entitled to various benefits. Please contact the **Office of Veterans Affairs**, Tazewell Hall, Room 104 or call 276.964.7287.

Step 8: Check Your Email

You will receive emails from Admissions, Financial Aid and your Advisors on your student gmail account, accessible through MySouthwest. Be sure to check it regularly so that you are aware of any changes in finances or scheduling.

Step 9: Check your Calendar

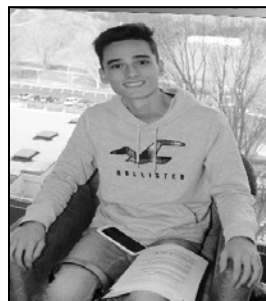
Go to sw.edu/schedule/ to verify dates and deadlines for adding and dropping classes. Be sure to consider how dropping classes may impact your Financial Aid. We strongly recommend that you consult with your advisor prior to making any schedule changes.

Step 10: Get your Books

You may purchase your books from the SWCC bookstore or from any bookseller. If you have pending financial aid, you can 'charge' your books to that aid, but only in the on-campus store.

You can visit the SWCC Bookstore in Buchanan Hall, room 180 with your Student ID and a copy of your schedule. Please visit the website to verify hours of operation and to view dates for financial aid charges.

Please retain all receipts, as refunds will not be allowed without a receipt. Remember - if you drop classes and your financial aid is decreased, you will be responsible for any balance previously covered by financial aid.



NUMBERS TO CALL FOR ASSISTANCE

Admissions Office.....	276-964-7238
Bookstore.....	276-964-7217
Business, Engineering & Industrial Technology Division	276-964-7277
Business Office – Tuition.....	276-964-7215
Campus Police.....	276-964-7221
Computer Support Services.....	276-964-7767
Dean of Students Success.....	276-964-7677
Disability Services	276-964-7314
Educational Foundation (Scholarships).....	276-964-7351
Financial Aid.....	276-964-7724
Health Technologies, Humanities, Mathematics, Natural Science, & Social Science Division.....	276-964-7340
Learning Assistance Center.....	276-964-7674
Library Circulation Desk.....	276-964-7265
Student Success	276-964-7675
Tutoring/Student Support Services.....	276-964-7624
Veterans Affairs.....	276-964-7287
Vice President of Academic & Student Services.....	276-964-7200
VPT Testing.....	276-964-7706
SWCC Switchboard.....	276-964-2555
SWCC Switchboard – Toll Free.....	1-855-877-3944
Workforce Solutions.....	276-964-7244

PROGRAMS FOR TRANSFER

Associate of Arts & Science (AA&S)

These programs, leading to the Associate in Arts and Sciences Degree, are merely guides for students. These outlines suggest a sequence in which the various courses may be taken. Students may select their own courses and sequences, but should adhere to the requirements for graduation.

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Specialization: Outdoor Leadership.....	Page 10
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Specialization: Liberal Arts.....	Page 19
Specialization: Music	Page 20
Specialization: Psychology.....	Page 21
Science	Page 22
Specialization: Geology & Environmental Science	Page 23
Specialization: Pre-Medical.....	Page 24

CAREER & TECHNICAL PROGRAMS

Associate of Applied Science Degree (AAS)

These programs are designed to serve students who are planning to enter their chosen vocation at the semi-professional level at the completion of a program, or those who plan to use the educational experiences attained to prepare for advancement in the field of present employment. Programs of study are developed with the assistance of advisory committees representing business and industry and survey information that has enabled the College to identify area manpower needs.

Business Technology

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Specialization Electronic Medical Records	Page 29



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CAREER & TECHNICAL PROGRAMS (continued)

Associate of Applied Science Degree (AAS)

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Environmental Management	Page 35
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Specialization: Environmental Health and Safety	Page 37

Health Technology

Emergency Medical Services Technology	Page 38
Registered Nursing	Page 39
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Human Services Technology

Specialization: Early Childhood Education	Page 43
Specialization: Gerontology	Page 44
Specialization: Mental Health	Page 45
Specialization: Substance Abuse	Page 46
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Public Service Technology

Administration of Justice	Page 48
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DIPLOMA PROGRAMS

Diploma programs are generally two years in length. They are designed to prepare students for employment in a given occupational area.

Welding.....	Page 51
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CERTIFICATE PROGRAMS

Certificates are designed to prepare students for initial employment, retraining for new skills, or for advancement within a given vocation.

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Human Services Technology	Page 58
Law Enforcement.....	Page 59
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CAREER STUDIES CERTIFICATE (CSC)

The Career Studies Certificate is in response to the non-conventional short-term program of study needs of many adults in our service region for an award which provides for upgrading, re-training, and investigating career possibilities.

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Customer Care Representative	Page 69
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Early Childhood Education	Page 70
Early Childhood Infant and Toddler	Page 71
Electrical Installation.....	Page 71
Electronic Medical Records Specialist.....	Page 72



CAREER STUDIES CERTIFICATE (CSC) (continued)

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BUSINESS ADMINISTRATION

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts and Sciences (AA & S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	61
Program Purpose:	TRANSFER
Program Code:	216-01

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

- ___ ENG 111 College Composition I (3 credits)
- ___ Science I with lab* (4 credits)
- ___ MTH Mathematics** (3 credits)
- ___ ITE 115 Introduction to Computer Applications & Concepts (3 credits)
- ___ SDV 100 College Success Skills (1 credit)
- ___ BUS 100 Introduction to Business **OR** Elective (3 credits)

Second Semester (14 Credits)

- ___ CST 100 Principles of Public Speaking (3 credits)
- ___ Science II with lab* (4 credits)
- ___ ENG 112 College Composition II (3 credits)
- ___ MTH Mathematics** (3 credits)
- ___ HLT/PED Health or Physical Education Elective (1 credit)

Third Semester (16 Credits)

- ___ ACC 211 Principles of Accounting I (4 credits)
- ___ BUS 241 Business Law I (3 credits)
- ___ ECO 201 Principles of Macroeconomics (3 credits)
- ___ ENG Literature Elective (3 credits)
- ___ HIS 101 History of Western Civilization I (3 credits) **OR**
- ___ HIS 121 United States History I (3 credits)

Fourth Semester (14 Credits)

- ___ ACC 212 Principles of Accounting II (4 credits)
- ___ ECO 202 Principles of Microeconomics (3 credits)
- ___ HIS 102 History of Western Civilization II (3 credits) **OR**
- ___ HIS 122 United States History II (3 credits)
- ___ ENG Literature Elective (3 credits)
- ___ HLT/PED Health or Physical Education Elective (1 credit)

Program Notes:

* Biology 101-102, Chemistry 111-112, Geology 105-106, or Physics 201-202. Check with your advisor.

** Mathematics requirements may vary greatly from one transfer institution to another. Check with your advisor or transfer institution for proper mathematics courses to be taken. Available courses include MTH 151, MTH 152, MTH 163, MTH 164, MTH 271, MTH 173, MTH 174, MTH 240.



BUSINESS ADMINISTRATION

Specialization: Outdoor Leadership

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts and Sciences (AA & S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	61
Program Purpose:	TRANSFER
Program Code:	216-02

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

___ ENG 111	College Composition I (3 credits)
___	Science I with lab* (4 credits)
___ MTH	Mathematics** (3 credits)
___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)
___ SDV 100	College Success Skills (1 credit)
___ RPK 100	Introduction to Recreation, Parks & Leisure Services (3 credits)

Second Semester (15 Credits)

___ CST 100	Principles of Public Speaking (3 credits)
___	Science II with lab* (4 credits)
___ ENG 112	College Composition II (3 credits)
___ MTH	Mathematics** (3 credits)
___ HLT/PED	Health or Physical Education Elective (1 credit)
___ RPK 170	Recreational Backpacking*** (1 Credit)

Third Semester (15 Credits)

___ RPK 141	Leadership and Supervision (3 credits)
___ RPK 103	Preparation for Wilderness Adventure (1 credit)
___ RPK 140	Land Use Ethics (1 credit)
___ ECO 201	Principles of Macroeconomics (3 credits)
___ ENG	Literature Elective (3 credits)
___ HIS	History of Western Civilization I (3 credits) OR
	HIS 121 United States History I (3 credits)
___ RPK 150	Mountain Biking*** (1 credit)

Fourth Semester (14 Credits)

___ RPK 125	Resource Interpretation and Education (3 credits)
___ RPK 151	Orienteering (1 credit)
___ ECO 202	Principles of Microeconomics (3 credits)
___ HIS	History of Western Civilization II (3 credits) OR
	HIS 122 United States History II (3 credits)
___ ENG	Literature Elective (3 credits)
___ HLT/PED	Health or Physical Education Elective (1 credit)

Program Notes:

* Biology 101-102, Chemistry 111-112, Geology 105-106, or Physics 201-202. Check with your advisor.

** Mathematics requirements may vary greatly from one transfer institution to another. Check with your advisor or transfer institution for proper mathematics courses to be taken. Available courses include MTH 151, MTH 152, MTH 163, MTH 164, MTH 271, MTH 173, MTH 174, MTH 240.

*** Or division approval

EDUCATION

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts & Science (AA&S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	63
Program Purpose:	TRANSFER
Program Code:	642-01

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

- ___ ENG 111 College Composition I¹ (3 credits)
- ___ SDV 101 Orientation to Education (1 credits)
- ___ HIS United States History I (HIS 121 or 101) (3 credits)
- ___ MTH Mathematics (MTH 151 or 163)^{1**} (3 credits)
- ___ ITE 115 Introduction to Computer Applications & Concepts (3 credits)
- ___ NAS Natural Science with Lab^{**} (4 credits)

Second Semester (16 Credits)

- ___ ENG 112 College Composition II (3 credits)
- ___ HIS History II (HIS 122 or 102) (3 credits)
- ___ MTH Mathematics (MTH152 or 164 or 240) ^{**} (3 credits)
- ___ NAS Natural Science with Lab (4 credits)
- ___ EDU 200 Introduction to Teaching (3 credits)

Third Semester (15 Credits)

- ___ ENG Literature (ENG 241 or 243 or 251) ^{**} (3 credits)
- ___ HLT 110 Concepts of Personal & Community Health (3 credits)
- ___ ELECTIVE Social Science Elective^{**} (3 credits)
- ___ ELECTIVE Arts & Humanities Elective^{**} (3 credits)
- ___ ELECTIVE Arts & Humanities Elective^{**} (3 credits)

Fourth Semester (15 Credits)

- ___ ENG Literature (ENG 242 or 244 or 252) ^{**} (3 credits)
- ___ ELECTIVE Arts & Humanities Elective^{**} (3 credits)
- ___ CST 100 Principles of Public Speaking (3 credits)
- ___ ELECTIVE Social Sciences Elective ^{**} (3 credits)
- ___ ELECTIVE Elective^{**} (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

"C" in all English Courses Pass Praxis I Exam 2.5 Cumulative GPA

* All education majors should take PRAXIS I during EDU 200.

^{**} Electives: Determine transfer institution's requirements prior to selection.

Arts & Humanities: PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201-202.

Natural Science: BIO 101-102; CHM 111-112; PHY 201-202; GOL 105-106.

Social Science: ECO 201-202; HIS 101-102; PLS 211-212; PSY 200, PSY 231-232; SOC 200; GEO 200, GEO 210.



EDUCATION - Specialization: Pre-Teacher Education

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts & Science (AA&S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	62
Program Purpose:	TRANSFER
Program Code:	624-02

PROGRAM COURSE REQUIREMENTS

First Semester (15 Credits)

___ ENG 111	College Composition I ¹ (3 credits)
___ MTH	Mathematics (MTH 151 or 163) ^{1**} (3 credits)
___ HIS 121	United States History I (3 credits)
___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)
___ SDV 101	Orientation to Education (1 credits)
___ HLT	Health/Wellness (2 credits)

Second Semester (15 Credits)

___ ENG 112	College Composition II (3 credits)
___ MTH	Mathematics (MTH 152 or 240) ** (3 credits)
___ HIS 122	United States History II (3 credits)
___ PLS 135	American National Politics (3 credits)
___ ELECTIVE	Humanities Elective** (3 credits)

Take the Praxis I Exam*

Third Semester (16 Credits)

___ CST 110	Introduction to Speech Communication (3 credits)
___ HIS	History of Western Civ. I or II (HIS 101 or HIS 102) (3 credits)
___ EDU 200	Introduction to Teaching* (3 credits)
___ ECO	Principles of Economics I or II (ECO 201 or ECO 202) (3 credits)
___ BIO 101	General Biology I (4 credits)

Fourth Semester (16 Credits)

___ GEO 210	People and the Land: An Intro. To Cultural Geography (3 credits)
___ BIO 102	General Biology II (4 credits)
___ ELECTIVE	Humanities Elective ** (3 credits)
___ ELECTIVE	Elective ** (3 credits)
___ ENG	Literature Elective** (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

C in all English Courses Pass Praxis I Exam 2.5 Cumulative GPA

* All education majors should take PRAXIS I during EDU 200.

** Electives: Determine transfer institution's requirements prior to selection.

Arts & Humanities: PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201-202.

Natural Science: BIO 101-102; CHM 111-112; PHY 201-202; GOL 105-106.

Social Science: ECO 201-202; HIS 101-102; PLS 211-212; PSY 200, PSY 231-232; SOC 200; GEO 200, GEO 210.

ENGINEERING

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts and Sciences (AA & S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	68
Program Purpose:	TRANSFER
Program Code:	836-01

PROGRAM COURSE REQUIREMENTS

First Semester (18 Credits)

- ___ MTH 173 Calculus with Analytic Geometry I (5 credits)
- ___ CHM 111 College Chemistry I (4 credits)
- ___ EGR 120 Introduction to Engineering (2 credits)
- ___ SDV 100 College Success Skills (1 credit)
- ___ ELECTIVE Social Science Elective** (3 credits)
- ___ ENG 111 College Composition I (3 credits)

Second Semester (16 Credits)

- ___ MTH 174 Calculus with Analytic Geometry II (4 credits)
- ___ EGR 115 Engineering Graphics (2 credits)
- ___ HLT/PED Health or Physical Education Elective (1 credit)
- ___ ELECTIVE Social Science Elective** (3 credits)
- ___ ENG 112 College Composition II (3 credits)
- ___ ELECTIVE Humanities Elective* (3 credits)

Third Semester (17 Credits)

- ___ MTH 277 Vector Calculus (4 credits)
- ___ PHY 241 University Physics I (4 credits)
- ___ ELECTIVE Approved Engineering Elective*** (3 credits)
- ___ ELECTIVE Approved Engineering Elective*** (3 credits)
- ___ MTH 285 Linear Algebra (3 credits)

Fourth Semester (17 Credits)

- ___ MTH 279 Ordinary Differential Equations (4 credits)
- ___ PHY 242 University Physics II (4 credits)
- ___ ELECTIVE Approved Engineering Elective*** (3 credits)
- ___ ELECTIVE Approved Engineering Elective*** (3 credits)
- ___ ELECTIVE Humanities Elective* (3 credits)

Program Notes:

***Humanities Electives:** Students should consult with their advisor or transfer institution for proper section of electives: Typical electives include: ART 101, 102; MUS 121 or 122; ENG 241, 242, 243, 244, 251, 252, 257, 279; REL 200, 210, 230, 246.

****Social Science Electives:** Students should consult with their advisor or transfer institution for proper section of electives: Typical electives include: ECO 201, 202; HIS 101, 102, 121, 122, 266, 269, 277; PLS 211, 212; PSY 200, 231, 232, 255; SOC 200, 215, 268; GEO 200, 210.

*****Approved Engineering Electives:** EGR 125, 140, 206, 245, 246, 260, 261, 265. Upon advisor approval: CHM 112, CHM 241.



ENGINEERING - Specialization: Software Engineering

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts and Sciences (AA & S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	67
Program Purpose:	TRANSFER
Program Code:	836-02

PROGRAM COURSE REQUIREMENTS

First Semester (18 Credits)

___ MTH 173	Calculus with Analytic Geometry I (5 credits)
___ CHM 111	College Chemistry I (4 credits)
___ EGR 120	Introduction to Engineering (2 credits)
___ SDV 100	College Success Skills (1 credit)
___ ELECTIVE	Social Science Elective** (3 credits)
___ ENG 111	College Composition I (3 credits)

Second Semester (16 Credits)

___ MTH 174	Calculus with Analytic Geometry II (4 credits)
___ EGR 115	Engineering Graphics (2 credits)
___ ITP 100	Software Design (3 Credits)
___ ELECTIVE	Social Science Elective** (3 credits)
___ ENG 112	College Composition II (3 Credits)
___ HLT/PED	Health or Physical Education Elective (1 credit)

Third Semester (17 Credits)

___ MTH 277	Vector Calculus (4 credits)
___ PHY 241	University Physics I (4 credits)
___ EGR 125	Introduction to Engineering Methods (3 credits)
___ ITP 120	Java Programming I (3 credits)
___ MTH 285	Linear Algebra (3 credits)

Fourth Semester (16 Credits)

___ MTH 240	Statistics*** (3 credits)
___ PHY 242	University Physics II (4 credits)
___ EGR 206	Engineering Economy (3 credits)
___ ELECTIVE	Humanities Elective* (3 credits)
___ ELECTIVE	Humanities Elective* (3 credits)

Program Notes:

***Humanities Electives:** Students should consult with their advisor or transfer institution for proper section of electives: Typical electives include: ART 101, 102; MUS 121 or 122; ENG 241, 242, 243, 244, 251, 252, 257, 279; REL 200, 210, 230, 246.

****Social Science Electives:** Students should consult with their advisor or transfer institution for proper section of electives: Typical electives include: ECO 201, 202; HIS 101, 102, 121, 122, 266, 269, 277; PLS 211, 212; PSY 200, 231, 232, 255; SOC 200, 215, 268; GEO 200, 210.

*****Students may substitute MTH 279 (Ordinary Differential Equations) based on program adviser or transfer institution's recommendations.**

GENERAL STUDIES

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts & Science (AA&S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	61
Program Purpose:	TRANSFER
Program Code:	697

PROGRAM COURSE REQUIREMENTS

First Semester (15 Credits)

- ___ ENG 111 College Composition I¹ (3 credits)
- ___ SDV 100 College Success Skills (1 credits)
- ___ HIS History (HIS 121 or 101) (3 credits)
- ___ MTH Mathematics (MTH 151 or 163)¹ (3 credits)
- ___ HLT/PED Health or Physical Education (1 credits)
- ___ NAS Natural Science with Lab* (4 credits)

Second Semester (16 Credits)

- ___ ENG 112 College Composition II (3 credits)
- ___ HIS History (HIS 122 or 102) (3 credits)
- ___ MTH Mathematics (MTH 152 or 164) (3 credits)
- ___ NAS Natural Science with Lab* (4 credits)
- ___ ELECTIVE Elective** (3 credits)

Third Semester (15 Credits)

- ___ ENG Literature (ENG 241 or 243) (3 credits)
- ___ PSY 200 Principles of Psychology (3 credits)
- ___ ELECTIVE Humanities or Social Sciences Elective*** (3 credits)
- ___ ELECTIVE Elective** (3 credits)
- ___ ELECTIVE Elective** (3 credits)

Fourth Semester (15 Credits)

- ___ ENG Literature (ENG 242 or 244) (3 credits)
- ___ SOC 200 Principles of Sociology (3 credits)
- ___ ELECTIVE Humanities or Social Sciences Elective*** (3 credits)
- ___ CST 100 Principles of Public Speaking (3 credits)
- ___ ELECTIVE Elective** (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

² Both PSY 200 (Principles of Psychology) and SOC 200 (Principles of Sociology) are required for this program.

*BIO 101-102, CHM 111-112, NAS 131-132, PHY 201-202, GOL 105-106 may be used to fulfil requirements.

**Determine transfer institution's requirements prior to selection.

*****Humanities Electives:** PHI 101-102; ART 101-102; ENG 241-242; ENG 243-244, MUS 121-122, SPA 101-102, 201-202; FRE 101-102, 201-202, REL 230.

*****Social Science Electives:** ECO 201-202; PLS 211-212; PSY 200, PSY 231-232, HIS 101-102, GEO 200, GEO 210.



GENERAL STUDIES – Agribusiness

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts & Science (AA&S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	61
Program Purpose:	TRANSFER
Program Code:	697-07

PROGRAM COURSE REQUIREMENTS

First Semester (15 Credits)

___ ENG 111	College Composition I ¹ (3 credits)
___ SDV 100	College Success Skills (1 credits)
___ AGR	Agribusiness Elective*** (3 credits)
___ MTH	Mathematics (MTH 151 or 163) ^{1**} (3 credits)
___ HLT/PED	Health or Physical Education (1 credits)
___ NAS	Natural Science with Lab* (4 credits)

Second Semester (16 Credits)

___ ENG 112	College Composition II (3 credits)
___ HIS	History (HIS 121 or 101) or ECO 201 (3 credits)
___ MTH	Mathematics (MTH 152 or 164) ** (3 credits)
___ NAS	Natural Science with Lab* (4 credits)
___ AGR	Agribusiness Elective*** (3 credits)

Third Semester (15 Credits)

___ ENG	Literature (ENG 241 or 243) ** (3 credits)
___ PSY 200	Principles of Psychology (3 credits)
___ ART 101	History & Appreciation of Art I (3 credits)
___ AGR	Agribusiness Elective*** (3 credits)
___ AGR	Agribusiness Elective*** (3 credits)

Fourth Semester (15 Credits)

___ ENG	Literature (ENG 242 or 244) ** (3 credits)
___ HIS/ECO	History (HIS 122 or 102) or ECO 202 (3 credits)
___ SOC 200	Principles of Sociology (3 credits)
___ CST 100	Principles of Public Speaking (3 credits)
___ AGR	Agribusiness Elective*** (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

² Both PSY 200 (Principles of Psychology) and SOC 200 (Principles of Sociology) are required for this program.

*BIO 101-102, CHM 111-112, NAS 131-132, PHY 201-202, GOL 105-106 may be used to fulfil requirements.

**Determine transfer institution's requirements prior to selection.

*****Agribusiness Electives:** AGR 141, AGR 142, AGR 143, AGR 144, AGR 205, AGR 231, AGR 232, AGR 233, AGR 241, AGR 242, AGR 244

GENERAL STUDIES – Appalachian Studies

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts & Science (AA&S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	61
Program Purpose:	TRANSFER
Program Code:	697-08

PROGRAM COURSE REQUIREMENTS

First Semester (15 Credits)

- ___ ENG 111 College Composition I (3 credits)
- ___ SDV 100 College Success Skills (1 credits)
- ___ HIS History (HIS 121 or 101) (3 credits)
- ___ MTH Mathematics (MTH 151 or 163)¹** (3 credits)
- ___ HLT/PED Health or Physical Education (1 credits)
- ___ NAS Natural Science with Lab* (4 credit)

Second Semester (16 Credits)

- ___ ENG 112 College Composition II (3 credits)
- ___ HIS History (HIS 122 or 102) (3 credits)
- ___ MTH Mathematics (MTH 152 or 164)¹** (3 credits)
- ___ NAS Natural Science with Lab* (4 credits)
- ___ HIS 205 Local History of the Appalachian Region (3 credits)

Third Semester (15 Credits)

- ___ ENG Literature (ENG 241, 243, or 251) ** (3 credits)
- ___ PSY 200 Principles of Psychology (3 credits)
- ___ ENG 278 Appalachian Literature (3 credits)
- ___ ELECTIVE Elective** (6 credits)

Fourth Semester (15 Credits)

- ___ ENG Literature (ENG 241, 243, or 251) ** (3 credits)
- ___ SOC 200 Principles of Sociology (3 credits)
- ___ SOC 295 Topics in Appalachian Social Problems (3 credits)
- ___ CST 100 Principles of Public Speaking (3 credits)
- ___ ELECTIVE Elective** (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

Arts & Humanities: PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201-202.

Natural Science*: BIO 101-102; CHM 111-112; PHY 201-202; GOL 105-106.

Social Science: ECO 201-202; HIS 101-102; PLS 211-212; PSY 200, PSY 231-232; SOC 200; GEO 200, GEO 210.

** Determine transfer institution's requirements prior to selection



GENERAL STUDIES – Fine Arts

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts & Science (AA&S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	60
Program Purpose:	TRANSFER
Program Code:	697-02

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

___ ENG 111	College Composition I ¹ (3 credits)
___ ART 121	Drawing I (3 credits)
___ MTH	Mathematics (MTH 151 or 163) ¹ (3 credits)
___ ART 201	History of Art I (3 credits)
___ ELECTIVE	Humanities Elective*** (3 credits)
___ SDV 100	College Success Skills (1 credit)

Second Semester (13 Credits)

___ ENG 112	College Composition II (3 credits)
___ ART	ART 122 or ART 231 (3 credits)
___ MTH	Mathematics (MTH 152 or 164) (3 credits)
___ ELECTIVE	Art Elective** (3 credits)
___ HLT/PED	Physical Education Elective (1 credit)

Third Semester (17 Credits)

___ NAS	Natural Science with Lab* (4 credits)
___ ART 131	Design I (3 credits)
___ ART 283	Computer Graphics I (4 credits)
___ HIS	History (HIS 121 or 101) (3 credits)
___ SOC 200	Principles to Sociology ² (3 credits)

Fourth Semester (14 Credits)

___ NAS	Natural Science with Lab* (4 credits)
___ ELECTIVE	Art Elective** (3 credits)
___ HIS	History (HIS 122 or 102) (3 credits)
___ PSY 200	Principles of Psychology ² (3 credits)
___ PED	Physical Education Elective (1 credit)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

² Both PSY 200 (Principles of Psychology) and SOC 200 (Principles of Sociology) are required for this program.

*Students may select 8 credits from: BIO 101-102, CHM 111-112, NAS 131-132, PHY 201-202, GOL 105-106.

***Suggested Humanities Electives: PHI 101-102; MUS 121-122, CST 100, SPA 101-102, 201-202; FRE 101-102, 201-202;

GENERAL STUDIES – Liberal Arts

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts & Science (AA&S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	61
Program Purpose:	TRANSFER
Program Code:	697-06

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

- ___ ENG 111 College Composition I¹ (3 credits)
- ___ SDV 100 College Success Skills (1 credit)
- ___ MTH Mathematics (MTH 151 or 163)¹ (3 credits)
- ___ Beginning Foreign Language (4 credits)
- ___ HLT/PED Health or Physical Education (1 credit)
- ___ NAS Natural Science with Lab* (4 credits)

Second Semester (15 Credits)

- ___ ENG 112 College Composition II (3 credits)
- ___ MTH Mathematics (MTH 152 or 164) (3 credits)
- ___ Beginning Foreign Language (4 credits)
- ___ NAS Natural Science with Lab* (4 credits)
- ___ HLT/PED Health or Physical Education (1 credit)

Third Semester (15 Credits)

- ___ ENG English (ENG 241, 243, or 251) * (3 credits)
- ___ PSY 200 Principles of Psychology (3 credits)
- ___ HIS History (HIS 121 or 101) (3 credits)
- ___ Interm. Foreign Language (3 credits)
- ___ ELECTIVE Humanities or Social Science Elective* (3 credits)

Fourth Semester (15 Credits)

- ___ ENG English (ENG 242, 244 or 252) * (3 credits)
- ___ SOC 200 Principles of Sociology (3 credits)
- ___ Interm. Foreign Language (3 credits)
- ___ HIS History (HIS 122 or 102) (3 credits)
- ___ ELECTIVE Humanities or Social Science Elective* (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

Arts & Humanities: PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201-202.

Natural Science*: BIO 101-102; CHM 111-112; PHY 201-202; GOL 105-106.

Social Science: ECO 201-202; HIS 101-102; PLS 211-212; PSY 200, PSY 231-232; SOC 200; GEO 200, GEO 210.

**Determine transfer institution's requirements prior to selection.

Note: Students having completed three or more years of foreign language in high school with a "C" or better average may petition for credit by experience or credit by exam. It is recommended that students receiving credit by experience take humanities electives to meet the requirements of the transfer institution. Please see your advisor for details.



GENERAL STUDIES – Music

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts & Science (AA&S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	61
Program Purpose:	TRANSFER
Program Guide:	697-05

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

___ ENG 111	College Composition I ¹ (3 credits)
___ SDV 100	College Success Skills (1 credit)
___ MUS 111	Music Theory I (4 credits)
___ MTH	Mathematics (MTH 151 or 163) ^{1**} (3 credits)
___ MUS	Class Piano I (2 credits)
___ ELECTIVE	Elective (3 credits)

Second Semester (15 Credits)

___ ENG 112	College Composition II (3 credits)
___ MTH	Mathematics (MTH 152, 164 or 240) (3 credits)
___ MUS 112	Music Theory II (4 credits)
___ MUS 142	Class Piano II (2 credits)
___ ELECTIVE	Elective (3 credits)

Third Semester (16 Credits)

___ NAS	Natural Science with Lab * (4 credits)
___ MUS 221	History of Music (3 credits)
___ HIS	History (HIS 121 or 101) (3 credits)
___ ELECTIVE	Humanities or Social Science Elective (3 credits)
___ SOC 200	Principles of Sociology ² (3 credits)

Fourth Semester (14 Credits)

___ NAS	Natural Science with Lab * (4 credits)
___ HIS	History (HIS 122 or 102) (3 credits)
___ PED/HLT	Physical Education or Health (1 credit)
___ PSY 200	Principles of Psychology ² (3 credits)
___ ELECTIVE	Humanities or Social Science Elective (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

Natural Science*: BIO 101-102; CHM 111-112; PHY 201-202; GOL 105-106 may be used to fulfil requirements.

****Determine transfer institution's requirements prior to selection.**

Suggested Electives: MUS 121/122, MUS 137/237, MUS 149/249, MUS 211/212, MUS 241/242, MUS 222

GENERAL STUDIES – Psychology

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts & Science (AA&S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	61
Program Purpose:	TRANSFER
Program Code:	697-03

PROGRAM COURSE REQUIREMENTS

First Semester (15 Credits)

- ___ ENG 111 College Composition I¹ (3 credits)
- ___ SDV 100 College Success Skills (1 credit)
- ___ PSY 200 Principles of Psychology (3 credits)
- ___ MTH Mathematics (MTH 151 or 163)¹ (3 credits)
- ___ HLT/PED Health or Physical Education Elective (1 credit)
- ___ BIO 101 General Biology I (4 credits)

Second Semester (16 Credits)

- ___ ENG 112 College Composition II (3 credits)
- ___ ITE 115 Introduction to Computer Applications & Concepts (3 credits)
- ___ MTH Mathematics (MTH 152 or 164) (3 credits)
- ___ BIO 102 General Biology II (4 credits)
- ___ ELECTIVE Social Science Elective** (3 credits)

Third Semester (15 Credits)

- ___ ENG Literature (ENG 241, 243 or 251)* (3 credits)
- ___ HIS History (HIS 121 or 101) (3 credits)
- ___ MTH 240 Statistics (3 credits)
- ___ PSY 231 Life Span Human Development I (3 credits)
- ___ Humanities or Social Science Elective** (3 credits)

Fourth Semester (15 Credits)

- ___ ENG Literature (ENG 242, 244 or 252)* (3 credits)
- ___ HIS History (HIS 122 or 102) (3 credits)
- ___ PSY 232 Life Span Human Development II (3 credits)
- ___ ELECTIVE Elective** (3 credits)
- ___ CST 100 Principles of Public Speaking (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

*Determine transfer institution's requirements prior to selection.

Arts & Humanities: PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201-202.

****Social Science:** ECO 201-202; HIS 101-102; PLS 211-212; PSY 200, PSY 231-232; SOC 200; GEO 200, GEO 210



SCIENCE

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts & Science (AA&S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	61
Program Purpose:	TRANSFER
Program Code:	881-01

PROGRAM COURSE REQUIREMENTS

First Semester (14 Credits)

- ___ ENG 111 College Composition I¹ (3 credits)
- ___ HIS History (HIS 101 or 121) (3 credits)
- ___ MTH 163 Pre-Calculus (3 credits)
- ___ SDV 101 Orientation to Science (1 credit)
- ___ Science with Lab**** (4 credits)

Second Semester (17 Credits)

- ___ ENG 112 College Composition II (3 credits)
- ___ HIS History (HIS 102 or 122) (3 credits)
- ___ MTH 271 Calculus (3 credits)
- ___ HLT/PED Health or Physical Education (1 credit)
- ___ ITE 115 Introduction to Computer Applications & Concepts
- ___ **OR** Approved Elective (3 credits)
- ___ Science with Lab**** (4 credits)

Third Semester (15 Credits)

- ___ ENG Literature (ENG 241, 243 or 251) (3 credits)
- ___ HLT/PED Health or Physical Education (2 credits)
- ___ MTH Calculus or Approved Elective in Science*/**** (3 credits)
- ___ ELECTIVE Social Science Elective** (3 credits)
- ___ ELECTIVE Science with Lab**** (4 credits)

Fourth Semester (16 Credits)

- ___ MTH 240 Statistics or Approved Elective (3 credits)
- ___ CST 100 Principles of Public Speaking (3 credits)
- ___ ELECTIVE Social Science Elective** (3 credits)
- ___ ELECTIVE Humanities Elective*** (3 credits)
- ___ Science with Lab**** (4 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

* **Math Requirements:** A minimum of 9 semester hours of mathematics is required for the SCIENCE major. This MUST include a semester of calculus. One option is MTH 163-271-240. Math Majors are encouraged to meet with their advisors for other options.

** **Social Science:** ECO 201-202; HIS 101-102; PLS 211-212; PSY 200, PSY 231-232; SOC 200; GEO 200, GEO 210

*** **Arts & Humanities:** PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201-202

**** **Science with Lab:** BIO 101, 102; CHM 111, 112; CHM 241, 243, 242, 244, 260; PHY 201, 202, 241, 242

SCIENCE – Geology & Environmental

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts & Science (AA&S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	66
Program Purpose:	TRANSFER
Program Code:	881-02

PROGRAM COURSE REQUIREMENTS

First Semester (15 Credits)

- ___ ENG 111 College Composition I (3 credits)
- ___ BIO 101 General Biology I (4 credits)
- ___ GOL 105 Physical Geology (4 credits)
- ___ SDV 101 Orientation to Science (1 credit)
- ___ PLS 211 U.S. Government (3 credits)

Second Semester (17 Credits)

- ___ ENG 112 College Composition II (3 credits)
- ___ BIO 102 General Biology II (4 credits)
- ___ BIO 270 Ecology (3 credits)
- ___ PSY 200 General Psychology (3 credits)
- ___ GOL 106 Historical Geology (4 credits)

Third Semester (17 Credits)

- ___ MTH 271 Applied Calculus I (3 credits)
- ___ BIO 271 Introduction to Ecological Systems (4 credits)
- ___ HIS History (101 or 121) (3 credits)
- ___ MTH 157 Statistics (3 credits)
- ___ CHM 111 College Chemistry I (4 credits)

Fourth Semester (17 Credits)

- ___ HUM Humanities Elective* (6 credits)
- ___ SOC 200 Principles of Sociology (3 credits)
- ___ GOL 225 Environmental Geology (4 credits)
- ___ CHM 112 College Chemistry II (4 credits)

Program Notes:

Developmental coursework may require additional semesters to complete program.

The student who needs MTH 163 will need 69 total credits to include 9 hours of math.

*Humanities Elective: Determine transfer institution's requirements prior to selection: *PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201- 202.*



SCIENCE – Pre-Medical

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Arts & Science (AA&S)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	65-68 Total Credits are dependent on the math sequence taken.
Program Purpose:	TRANSFER
Program Code:	881-03

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

- ___ ENG 111 College Composition I¹ (3 credits)
- ___ BIO 101 General Biology I (4 credits)
- ___ CHM 111 College Chemistry I (4 credits)
- ___ MTH 271 Applied Calculus* (3 credits)
- ___ HLT/PED Health or Physical Education (1 credit)
- ___ SDV 101 Orientation to Science (1 credit)

Second Semester (17 Credits)

- ___ ENG 112 College Composition II (3 credits)
- ___ BIO 102 General Biology II (4 credits)
- ___ CHM 112 College Chemistry II (4 credits)
- ___ MTH 240 Statistics (3 credits)
- ___ HIS History (101 or 121) (3 credits)

Third Semester (17 Credits)

- ___ ENG Literature (ENG 241, 243 or 251) (3 credits)
- ___ CHM 241/243 Organic Chemistry I or Approved Science Elective**** (4 credits)
- ___ PHY 201 General College Physics I **OR**
Approved Science Elective**** (4 credits)
- ___ ITE 115 Introduction to Computer Applications & Concepts **OR**
Approved Elective (3 credits)
- ___ ELECTIVE Social Science Elective** (3 credits)

Fourth Semester (15 Credits)

- ___ CST 100 Principles of Public Speaking (3 credits)
- ___ CHM 242/244 Organic Chemistry II or Approved Science Elective**** (4 credits)
- ___ PHY 202 General College Physics II **OR**
Approved Science Elective**** (4 credits)
- ___ ELECTIVE Humanities Elective*** (3 credits)
- ___ HLT/PED Health and Physical Education (1 credit)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

Discuss pre-health/medical choice with a faculty advisor (www.sw.edu/catalogs/advisor-listing/)

*The student who needs MTH 163 will need 69 total credits to include 9 hours of math.

****Social Science Elective:** Determine transfer institution's requirements prior to selection; ECO 201-202; HIS 101-102; PLS 211-212; PSY 200, PSY 231-232; SOC 200; GEO 200, GEO 210

*** **Arts & Humanities:** PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201-202.

******Approved Science Electives:** Determine transfer institution's requirements prior to selection; BIO 141, BIO, 142, BIO 205

CAREER & TECHNICAL PROGRAMS

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ACCOUNTING

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	65
Program Purpose:	Not designed as a direct transfer program
Program Code:	203-01

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

___ ACC 211	Principles of Accounting I (4 credits)
___ ITE 140	Spreadsheet Software (3 credits)
___ ENG 111`	College Composition I** (3 credits)
___ MTH 151	Mathematics for Liberal Arts* (3 credits)
___ SDV 100	College Success Skills (1 credit)
___ ITE 115	Introduction to Computer Applications and Concepts (3 credits)

Second Semester (14 Credits)

___ ACC 212	Principles of Accounting II (4 credits)
___ ACC 124	Payroll Accounting (3 credits)
___ ELECTIVE	Social Science Elective*** (3 credits)
___ HLT/PED	Health or Physical Education Elective (1 credit)
___ ACC 215	Computerized Accounting (3 credits)

Third Semester (17 Credits)

___ ACC 221	Intermediate Accounting I (3 credits)
___ ACC 261	Principles of Federal Taxes I (3 credits)
___ AST 205	Business Communications (3 credits)
___ BUS 200	Principles of Management (3 credits) OR
___ BUS 165	Small Business Management (3 credits)
___ ACC 231	Cost Accounting (3 credits)
___ MKT 170	Customer Service (2 credits)

Fourth Semester (17 Credits)

___ ELECTIVE	Humanities/Fine Arts**** (3 credits)
___ ACC 222	Intermediate Accounting II (3 credits)
___ ACC 241	Auditing I (3 credits)
___ ACC 290	Coordinated Internship in Accounting (1 credit)
___ ACC 275	Capstone Seminar in Accounting (3 credits)
___ HLT/PED	Health or Physical Education Elective (1 credit)
___ FIN 215	Financial Management (3 credits)

Program Notes:

* Students may substitute either MTH 163 or 271 for MTH 151.

** Students who do not wish to pursue a Baccalaureate degree in Accounting may substitute ENG 101 for ENG 111.

*** **Social Science Elective:** PSY, PLS, ECO, or SOC

**** **Humanities/Fine Arts:** Students may choose from the following courses: Philosophy, Religion, Music Appreciation, Art Appreciation, and Foreign Languages.

ACCOUNTING – INSURANCE

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	62
Program Purpose:	Not designed as a direct transfer program
Program Code:	203-02

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

___ ACC 211	Principles of Accounting I (4 credits)
___ ISR 130	Principles of Insurance (3 credits)
___ ENG 111	College Composition I** (3 credits)
___ MTH 151	Mathematics for Liberal Arts* (3 credits)
___ SDV 100	College Success Skills (1 credit)
___ ITE 115	Introduction to Computer Applications and Concepts (3 credits)

Second Semester (14 Credits)

___ ACC 212	Principles of Accounting II (4 credits)
___ ACC 124	Payroll Accounting (3 credits)
___ ELECTIVE	Social Science Elective*** (3 credits)
___ HLT/PED	Health or Physical Education Elective (1 credit)
___ ACC 215	Computerized Accounting (3 credits)

Third Semester (14 Credits)

___ ITE 140	Spreadsheet Software (3 credits)
___ AST 205	Business Communications (3 credits)
___ BUS	BUS 200 Principles of Management (3 credits) OR BUS 165 Small Business Management (3 credits)
___ ISR 262	Personal Insurance (3 credits)
___ MKT 170	Customer Service (2 credits)

Fourth Semester (17 Credits)

___ ELECTIVE	Humanities/Fine Arts**** (3 credits)
___ ISR 266	Life and Health Insurance (3 credits)
___ ISR 260	Commercial Insurance (3 credits)
___ ACC	ACC 290 Coordinated Internship in Accounting (1 credit) OR ACC 299 Supervised Study in Accounting (1 credit)
___ ACC 244	Office Administration II (3 credits)
___ HLT/PED	Health or Physical Education Elective (1 credit)
___ FIN 215	Financial Management (3 credits)

Program Notes:

*Students may substitute either MTH 163 or 271 for MTH 151. **Students who do not wish to pursue a Baccalaureate degree in Accounting may substitute ENG 101 for ENG 111. ***Social Science Elective: PSY, PLS, ECO, or SOC. ****Humanities/Fine Arts: Students may choose from the following courses: Philosophy, Religion, Music Appreciation, Art Appreciation, and Foreign Languages.



ADMINISTRATIVE SUPPORT TECHNOLOGY

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	65
Program Purpose:	Not designed as a direct transfer program
Program Code:	298-01

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

___ AST 101	Keyboarding I (4 credits)
___ ISR 130	Principles of Insurance (3 Credits)
___ MKT 170	Customer Service (2 credits)
___ ENG 111	College Composition I* (3 credits)
___ MTH 151	Mathematics for Liberal Arts (3 credits)
___ SDV 100	College Success Skills (1 credit)

Second Semester (18 Credits)

___ AST 102	Keyboarding II (4 credits)
___ AST 234	Records & Database Management (3 credits)
___ ITE 140	Spreadsheet Software (3 credits)
___ PSY 120	Human Relations (3 credits)
___ HLT/PED	Health or Physical Education Elective (2 credits)
___ ITE 115	Introduction to Computer Applications and Concepts (3 credits)

Third Semester (16 Credits)

___ ACC 211	Principles of Accounting I (4 credits)
___ ELECTIVE	Humanities/Fine Arts** (3 credits)
___ LGL 110	Introduction to Law & Legal Assistant (3 credits)
___ AST 243	Office Administration I (3 credits)
___ AST 205	Business Communications (3 credits)

Fourth Semester (15 Credits)

___ ELECTIVE	Approved Technical Elective (3 credits)
___ ACC 124	Payroll Accounting (3 credits)
___ AST 244	Office Administration II (3 credits)
___ AST 107	Editing/Proofreading Skills (3 credits)
___ AST 290	Coordinated Internship In Administrative Support Technology (3 credits)

Program Notes:

* Students who do not wish to pursue a Baccalaureate degree in Administrative Support Technology may substitute ENG 101-102 for ENG 111-112.

** **Humanities Electives:** Students should consult with their advisor or transfer institution for proper section of electives: Typical electives include: ART 101, 102; MUS 121 or 122; ENG 241, 242, 243, 244, 251, 252, 257, 279; REL 200, 210, 230, 246.

ADMINISTRATIVE SUPPORT TECHNOLOGY

Specialization: Electronic Medical Records

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	67
Program Purpose:	Not designed as a direct transfer program
Program Code:	298-04

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

- ___ AST 101 Keyboarding I (4 credits)
- ___ ENG 111 College Composition I* (3 credits)
- ___ ITE 115 Introduction to Computer Applications and Concepts (3 credits)
- ___ MTH 151 Mathematics for Liberal Arts (3 credits)
- ___ HLT 143 Medical Terminology I (3 credits)
- ___ SDV 100 College Success Skills (1 credits)

Second Semester (15 Credits)

- ___ AST 102 Keyboarding II (4 credits)
- ___ AST 234 Records & Database Management (3 credits)
- ___ HLT 144 Medical Terminology II (3 credits)
- ___ PSY 120 Human Relations (3 credits)
- ___ HLT 100 First Aid & CPR (2 credits)

Third Semester (17 Credits)

- ___ ELECTIVE Approved Technical Elective*** (3 credits)
- ___ AST 243 Office Administration I (3 credits)
- ___ AST 205 Business Communications (3 credits)
- ___ HIM 100 Introduction to Healthcare Delivery Systems (1 credit)
- ___ HIM 150 Health Records Management (3 credits)
- ___ ACC 211 Principles of Accounting I (4 credits)

Fourth Semester (18 Credits)

- ___ ACC 124 Payroll Accounting (3 credits)
- ___ AST 244 Office Administration II (3 credits)
- ___ AST 290 Coordinated Internship in Admin. Support Technology (3 credits)
- ___ ELECTIVE Humanities/Fine Arts** (3 credits)
- ___ HIM 233 Electronic Health Records Management (3 credits)
- ___ AST 107 Editing/Proofreading Skills (3 credits)

Program Notes:

* Students who do not wish to pursue a Baccalaureate degree in Administrative Support Technology may substitute ENG 101-102 for ENG 111-112.

** **Humanities Electives:** Students should consult with their advisor or transfer institution for proper section of electives: Typical electives include: ART 101, 102; MUS 121 or 122; ENG 241, 242, 243, 244, 251, 252, 257, 279; REL 200, 210, 230, 246.

*** See Advisor for course alternatives



INFORMATION SYSTEMS TECHNOLOGY

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	65
Program Purpose:	Not designed as a direct transfer program
Program Code:	299-01

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

___ MTH 151	Math for Liberal Arts* (3 credits)
___ ENG 111	College Composition I** (3 credits)
___ SDV 100	College Success Skills (1 credit)
___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)
___ ITN 106	Microcomputer Operating Systems (3 credits)
___ ITN 107	Personal Computer Hardware & Software (3 Credits)

Second Semester (16 Credits)

___ ITN 111	Server Administration (3 credits)
___ ITN 112	Network Infrastructure (3 Credits)
___ ITN 113	Active Directory (3 Credits)
___ ITN 101	Introduction to Network Concepts (3 credits)
___ MTH 152	Math for Liberal Arts II* (3 credits)
___ PED/RPK	Elective (1 credit)

Third Semester (16 Credits)

___ ITP 100	Software Design (3 credits)
___ ITP 120	Java Programming I (3 credits)
___ ITD 110	Web Page Design I Basics (3 credits)
___ GIS 200	Geographical Information Systems I (4 credits)
___ ITD 132	Structured Query Language) (3 credits)

Fourth Semester (17 Credits)

___ ITP 112	Visual Basic .NET I (4 credits)
___ ITP 251	Systems Analysis and Design (3 credits)
___ ELECTIVE	Social Science Elective*** (3 credits)
___ ELECTIVE	Humanities Elective**** (3 credits)
___ ITE 290	Coordinated Internship in Inform. Systems Technology (1 credit)
___ ITP 298	Seminar & Project in Capstone (3 credits)

Program Notes:

* Mathematics requirements may vary greatly from one transfer institution to another.

Students wishing to transfer should consult their advisor and/or transfer counselor.

** ENG 101 may substitute for ENG 111 for those not desiring to transfer the credit.

*** **Social Science Electives:** Students should consult with their advisor or transfer institution for proper section of electives: Typical electives include: ECO 201, 202; HIS 101, 102, 121, 122, 266, 269, 277; PLS 211, 212; PSY 200, 231, 232, 255; SOC 200, 215, 268; GEO 200, 210.

**** **Humanities Electives:** Students should consult with their advisor or transfer institution for proper section of electives: Typical electives include: ART 101, 102; MUS 121 or 122; ENG 241, 242, 243, 244, 251, 252, 257, 279; REL 200, 210, 230, 246.

MANAGEMENT

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	66
Program Purpose:	Not designed as a direct transfer program
Program Code:	212-01

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

- ___ BUS 100 Introduction to Business (3 credits)
- ___ MTH 151 Mathematics for Liberal Arts I* (3 credits)
- ___ MKT 100 Principles of Marketing (3 credits)
- ___ SDV 100 College Success Skills (1 credit)
- ___ ENG 111 College Composition I** (3 credits)
- ___ ITE 115 Introduction to Computer Applications & Concepts (3 credits)

Second Semester (16 Credits)

- ___ ITE 140 Spreadsheet Software (3 credits)
- ___ BUS 111 Principles of Supervision (3 credits)
- ___ ENG 112 College Composition II** (3 credits)
- ___ ELECTIVE Social Science Elective*** (3 credits)
- ___ HLT/PED Health or Physical Education Elective (1 credit)
- ___ ELECTIVE Humanities Elective**** (3 credits)

Third Semester (16 Credits)

- ___ AST 205 Business Communications (3 credits)
- ___ ACC 211 Principles of Accounting I (4 credits)
- ___ BUS 200 Principles of Management (3 credits)
- ___ BUS 241 Business Law I (3 credits)
- ___ BUS 205 Human Resource Management (3 credits)

Fourth Semester (18 Credits)

- ___ ACC 212 Principles of Accounting II (4 credits)
- ___ BUS 201 Organizational Behavior (3 credits)
- ___ BUS 204 Project Management (3 credits)
- ___ ELECTIVE Free Elective (3 credits)
- ___ BUS 290 Coordinated Internship in Management (2 credits)
- ___ ELECTIVE Free Elective (3 credits)

Program Notes:

* Students may substitute a higher math for MTH 151

** Students may substitute ENG 101- 102 for ENG 111-112 and AST 232 for ITE 115.

*** **Social Science Electives:** Students should consult with their advisor or transfer institution for proper section of electives: Typical electives include: ECO 201, 202; HIS 101, 102, 121, 122, 266, 269, 277; PLS 211, 212; PSY 200, 231, 232, 255; SOC 200, 215, 268; GEO 200, 210.

**** **Humanities Electives:** Students should consult with their advisor or transfer institution for proper section of electives: Typical electives include: ART 101, 102; MUS 121 or 122; ENG 241, 242, 243, 244, 251, 252, 257, 279; REL 200, 210, 230, 246.



ADVANCED MANUFACTURING

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	69
Program Purpose:	Not designed as a direct transfer program
Program Code:	718-03

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

___ ENG 111	College Composition I* (3 credits)
___ MEC 100	Introduction to Engineering Technology (2 credits)
___ MTH	MTH 163, 271, 173, or 273* (3 credits)
___ SDV 100	College Success Skills (1 credit)
___ SAF 127	Industrial Safety (2 credits)
___ IND 160	Introduction to Robotics (2 credits)
___ ETR 113	D.C & A.C Fundamentals I (3 credits)

Second Semester (19 Credits)

___ MTH	MTH 164, 271, 272, 240, 174 or 274* (3 credit)
___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)
___ RPK	Recreation Elective (1 credit)
___ MEC 155	Mechanisms (3 credits)
___ MEC 165	Applied Hydraulics, Pneumatics and Hydrostatics (4 credits)
___ HUM	Humanities Fine Arts Elective (3 credits)
___ ETR 286	Principles of Applications of Robots (2 credits)

Third Semester (16 Credits)

___ MEC 140	Introduction to Mechatronics (2 credits)
___ MAC 161	Machine Shop I (3 credits)
___ MAC 162	Machine Shop II (3 credits)
___ WEL 160	Gas Metal Arc Welding (3 credits)
___ DRF /WEL	DRF or Welding Blueprint Reading (2 credits)
___ SSS	Social Science Elective (3 credits)

Fourth Semester (18 Credits)

___ MAC 163	Machine Shop III (3 credits)
___ MAC 164	Machine Shop IV (3 credits)
___ MAC 121	Numerical Control I (3 credits)
___ MAC 122	Numerical Control II (3 credits)
___ MEC 230	Mechatronic Process Controls (3 credits)
___ IND 243	Principles and Applications of Mechatronics (3 credits)

Program Notes:

* Mathematics requirements may vary greatly from one transfer institution to another.
Students wishing to transfer should consult their advisor and/or transfer counselor.

COMPUTER NETWORKING & TELECOMMUNICATIONS

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	65
Program Purpose:	Not designed as a direct transfer program
Program Code:	731-01

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

___ MTH 151	Math for Liberal Arts* (3 credits)
___ ENG 111	College Composition I** (3 credits)
___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)
___ ITN 100	Introduction to Telecommunications (3 credits)
___ ITN 154	Networking Fundamentals (Cisco I) (4 credits)
___ SDV 100	College Success Skills (1 credit)

Second Semester (17 Credits)

___ HLT/PED	Health or Physical Education Elective (1 credit)
___ ITN 106	Microcomputer Operating Systems Speaking (3 Credits)
___ BUS 106	Security Awareness for Managers (3 Credits)
___ ITN 107	Personal Computer Hardware & Troubleshooting (3 Credits)
___ ITN 155	Routing Protocols & Concepts (CISCO II) (4 Credits)
___ ITN 171	Unix 1 (3 credits)

Third Semester (15 Credits)

___ ITN 113	Active Directory (3 credits)
___ HLT/PED	Health or Physical Education Elective (1 credit)
___ ITN 260	Network Security Basics (3 credits)
___ ELECTIVE	Social Science Elective*** (3 credits)
___ ITN 156	LAN Switching & Wireless (CISCO III) (4 credits)
___ RPK	RPK Elective (1 credit)

Fourth Semester (16 Credits)

___ ITN 111	Server Administration (3 credits)
___ ITN 208	Protocols & Communications TCP/IP (4 credits)
___ ITN 157	Accessing the WAN (CISCO IV) (4 credits)
___ ITE 290	Coordinated Internship in Information Technology (1 credit)
___ ELECTIVE	Humanities/Fine Arts**** (3 credits)
___ ELECTIVE	Elective (1 credit)

Program Notes:

*Student should take MTH 163-271 if planning to pursue a Baccalaureate Degree.

** ENG 101 may substitute for ENG 111 for those not desiring to transfer the credit.

*** **Social Science Electives:** PSY, PLS, ECO, or SOC

**** **Humanities/Fine Arts Electives:** Students may choose from the following courses: Philosophy, Religion, Music Appreciation, Art Appreciation, and Foreign Languages.



ELECTRICAL / ELECTRONICS

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	66
Program Purpose:	Not designed as a direct transfer program
Program Code:	941-02

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

___ MTH 163	Precalculus I** (3 credits)
___ SDV 100	College Success Skills (1 credit)
___ ENG 111	College Composition I* (3 credits)
___ ELE 140	Basic Electricity & Machinery (4 credits)
___ ETR 113	D.C & A.C. Fundamentals I (3 credits)
___ HLT/PEd	Health or Physical Education Elective (1 credit)
___ SAF 127	Industrial Safety (2 credits)

Second Semester (17 Credits)

___ MTH 164	Precalculus II ** (3 credits)
___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)
___ ETR 114	D.C & A.C. Fundamentals II (4 credits)
___ ETR 156	Digital Circuits & Microprocessor Fundamentals (4 credits)
___ ELECTIVE	Social Science Elective**** (3 credits)

Third Semester (17 Credits)

___ ETR 143	Devices and Applications I (3 credits)
___ ELE 233	Programmable Logic Controller System I (3 credits)
___ ELE 136	National Electric Code (Commercial) (3 credits)
___ ELE 211	Electrical Machines I (4 credits)
___ DRF 135	Electrical Electronics Blueprint Reading (2 credits)
___ IND 160	Introduction to Robotics (2 credits)

Fourth Semester (15 Credits)

___ ELECTIVE	Approved Technical Elective*** (3 credits)
___ ELECTIVE	Approved Technical Elective*** (3 credits)
___ ELECTIVE	Approved Technical Elective*** (3 credits)
___ ELECTIVE	Elective (3 credits)
___ ELECTIVE	Humanities/Fine Arts***** (3 credits)

Program Notes:

*Students not planning to transfer may take ENG 100

** Alternatives include MTH 103, MTH 104, MTH115, MTH 116, MTH 151, MTH 152, MTH 163, MTH 164, MTH 173, MTH 174, MTH 271, MTH 272 or division approval. Check with your advisor or transfer institution for the proper mathematics course sequence to be taken.

*** **Approved Technical Electives:** ELE 135, ELE 177, ELE 234, ELE 245, ELE 156, ETR 144, MAC 161, MAC 162, MAC 163, MAC 164, WEL 117, WEL 124, MEC 161, MAC 121, MAC 122, AIR 134, PHY 201, PHY 202 or Division Approval

**** **Social Science Elective:** PSY, PLS, ECO, or SOC

***** **Humanities/Fine Arts:** Students may choose from the following courses: Philosophy, Religion, Music Appreciation, Art Appreciation, and Foreign Languages.

ENVIRONMENTAL MANAGEMENT

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	67
Program Purpose:	Not designed as a direct transfer program
Program Code:	711-01

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

- ___ ENG 111 College Composition I¹ (3 credits)
- ___ MTH Mathematics (MTH 163 or 173)¹ (3 credits)
- ___ ENV 121 General Environmental Science I (4 credits)
- ___ BUS 100 Introduction to Business (3 credits)
- ___ SDV 100 College Success Skills (1 credit)
- ___ ELECTIVE Elective (3 credits)

Second Semester (17 Credits)

- ___ ENG 112 College Composition II (3 credits)
- ___ MTH Mathematics (MTH 164 or 274) (3 credits)
- ___ ITE 115 Introduction to Computer Applications & Concepts (3 credits)
- ___ GOL 105 Physical Geology (4 credits)
- ___ FOR 105 Forest & Wildlife Ecology (4 credits)

Third Semester (16 Credits)

- ___ HLT/PED Health or Physical Education Elective (2 credits)
- ___ BIO/CHM General Biology I or General Chemistry I (4 credits)
- ___ ENG Literature Elective (3 credits)
- ___ MTH Mathematics (MTH 273 or 275) (4 credits)
- ___ ELECTIVE Social Science Elective* (3 credits)

Fourth Semester (17 Credits)

- ___ ENV 221 Natural Resource Management (4 credits)
- ___ MTH 240 Statistics (3 credits)
- ___ FOR 135 Wildlife & Fisheries Management (3 credits)
- ___ BIO/CHM General Biology II or General Chemistry II (4 credits)
- ___ ELECTIVE Humanities/Fine Arts** (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

* **Social Science Electives:** PSY, SOC, HIS, ECO, PSL, and GEO

** Students may choose from the following courses: Philosophy, Religion, Music Appreciation, Art Appreciation, and Foreign Languages.



ENVIRONMENTAL MANAGEMENT

Specialization: Alternative Energy Technology

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	66
Program Purpose:	Not designed as a direct transfer program
Program Code:	711-03

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

___ ENG 111	College Composition I ¹ (3 credits)
___ MTH	Mathematics (MTH 163 or 273) ¹ (3 credits)
___ ENV 121	General Environmental Science I (4 credits)
___ BLD 200	Sustainable Construction (3 credits)
___ SDV 100	College Success Skills (1 credit)
___ ELECTIVE	Elective (3 credits)

Second Semester (17 Credits)

___ ENG 112	College Composition II (3 credits)
___ MTH	Mathematics (MTH 164 or 274) (3 credits)
___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)
___ GOL 105	Physical Geology (4 credits)
___ ENE 100	Conventional & Alternative Energy Apps (4 credits)

Third Semester (16 Credits)

___ HLT/PED	Health or Physical Education Elective (2 credits)
___ BIO/CHM	General Biology I or General Chemistry I (4 credits)
___ ENG	Literature Elective (3 credits)
___ MTH	Mathematics (MTH 273 or 275) (4 credits)
___ ELECTIVE	Social Science Elective* (3 credits)

Fourth Semester (16 Credits)

___ ENV 221	Natural Resource Management (4 credits)
___ MTH 240	Statistics (3 credits)
___ ENV 170	Fundamentals of Energy Technology (2 credits)
___ BIO/CHM	General Biology II or General Chemistry II (4 credits)
___ ELECTIVE	Humanities/Fine Arts** (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

* **Social Science Electives:** PSY, SOC, HIS, ECO, PSL, and GEO

** Students may choose from the following courses: Philosophy, Religion, Music Appreciation, Art Appreciation, and Foreign Languages.

ENVIRONMENTAL MANAGEMENT

Specialization: Environmental Health and Safety

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	66
Program Purpose:	Not designed as a direct transfer program
Program Code	711-04

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

- ___ ENG 111 College Composition I¹ (3 credits)
- ___ MTH Mathematics (MTH 163 or 273)¹ (3 credits)
- ___ ENV 121 General Environmental Science I (4 credits)
- ___ BLD/BUS Construction Management or Principles or Management (3 credits)
- ___ SDV 100 College Success Skills (1 credit)
- ___ ELECTIVE Elective (3 credits)

Second Semester (16 Credits)

- ___ ENG 112 College Composition II (3 credits)
- ___ MTH Mathematics (MTH 164 or 173) (3 credits)
- ___ ITE 115 Introduction to Computer Applications & Concepts (3 credits)
- ___ GOL 105 Physical Geology (4 credits)
- ___ SAF 120 Safety and Health Standards (3 credits)

Third Semester (16 Credits)

- ___ HLT/PED Health or Physical Education Elective (2 credits)
- ___ BIO/CHM General Biology I or General Chemistry I (4 credits)
- ___ ENG Literature Elective (3 credits)
- ___ MTH Mathematics (MTH 273 or 275) (4 credits)
- ___ ELECTIVE Social Science Elective* (3 credits)

Fourth Semester (17 Credits)

- ___ ENV 221 Natural Resource Management (4 credits)
- ___ MTH 240 Statistics (3 credits)
- ___ ENV 231 Environmental Codes I (3 credits)
- ___ BIO/CHM General Biology II or General Chemistry II (4 credits)
- ___ ELECTIVE Humanities/Fine Arts** (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

* **Social Science Electives:** PSY, SOC, HIS, ECO, PSL, and GEO

** Students may choose from the following courses: Philosophy, Religion, Music Appreciation, Art Appreciation, and Foreign Languages.



EMERGENCY MEDICAL SERVICES TECHNOLOGY

Program Length:	2 years (5 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	67
Program Purpose:	Not designed as a direct transfer program
Program Code:	146-01

PROGRAM COURSE REQUIREMENTS

First Semester (Summer, 13 Credits)

___ EMS 111	Emergency Medical Technician (7 credits)
___ EMS 120	EMT- Basic Clinical (1 credit)
___ BIO 145	Anatomy & Physiology (BIO 145)* (4 credits)
___ SDV 100	College Success Skills (1 credit)

Second Semester (Fall, 12 Credits)

___ EMS 151	Introduction to Advanced Life Support (4 credits)
___ EMS 152	Advanced EMT Completion (2 credits)
___ EMS 153	Basic ECG Recognition (2 credits)
___ EMS 170	ALS Internship I (1 credit)
___ ENG 111	College Composition I ¹ (3 credits)

Third Semester (Spring, 16 Credits)

___ EMS 154	ALS Cardiac Care (2 credits)
___ EMS 157	ALS Trauma Care (3 credits)
___ EMS 159	ALS Special Populations (3 credits)
___ EMS 172	ALS Clinical Internship II (1 credits)
___ EMS 173	ALS Field Internship I (1 credit)
___ MTH 151	Math for Liberal Arts I (3 credits)
___ EMS/HLT	Elective (3 credits)

Fourth Semester (Fall, 13 Credits)

___ EMS 205	Advanced Pathophysiology (4 credits)
___ EMS 209	Advanced Pharmacology (4 credits)
___ EMS 242	ALS Clinical Internship III (1 credit)
___ EMS 243	ALS Field Internship II (1 credit)
___ ELECTIVE	Social Science Elective II** (3 credits)

Fifth Semester (Spring, 13 Credits)

___ EMS 201	EMS Professional Development (3 credits)
___ EMS 207	Advanced Patient Assessment (3 credits)
___ EMS 211	Operations (2 credits)
___ EMS 244	ALS Clinical Internship IV (1 credit)
___ EMS 245	ALS Field Internship III (1 credit)
___ ELECTIVE	Humanities Elective *** (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

* A 4-credit Anatomy & Physiology course. BIO 141-142 are recommended if the student is planning to transfer to another medically related program; otherwise, BIO 145 is recommended.

** **Social Science:** ECO 201-202; HIS 101-102; PLS 211-212; PSY 200, PSY 230, 231-232; SOC 200; GEO 200, GEO 210

Recommend PSY 230

*** **Arts & Humanities:** PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201- 202.

REGISTERED NURSING

Program Length:	2 years (5 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	69
Program Purpose:	Not designed as a direct transfer program
Program Code:	156-01

PROGRAM COURSE REQUIREMENTS

First Semester (Summer, 9 Credits)

- ___ SDV 100 College Success Skills (1 credit)
- ___ MTH 126 Mathematics for Allied Health (2 credits)
- ___ ENG 111 College Composition I¹ (3 credits)
- ___ ITE ITE 119 Information Literacy **OR**
ITE 100 Introduction to Information Systems (3 credits)

Second Semester (Fall, 14 Credits)

- ___ BIO 141 Human Anatomy & Physiology I (4 credits)
- ___ NUR 105 Nursing Skills (2 credits)
- ___ NUR 108 Nursing Principles and Concepts I (5 credits)
- ___ NUR 136 Principles of Pharmacology I (1 credits)
- ___ NUR 226 Health Assessment (2 credits)

Third Semester (Spring, 16 Credits)

- ___ BIO 142 Human Anatomy & Physiology II (4 credits)
- ___ ENG 112 College Composition II (3 credits)
- ___ NUR 109 Nursing Principles and Concepts II (5 credits)
- ___ NUR 137 Principles of Pharmacology II (1 credit)
- ___ NUR 114 Geriatric Nursing (3 credits)

Fourth Semester (Fall, 15 Credits)

- ___ PSY 231 Life Span Human Development (3 credits)
- ___ ELECTIVE Humanities Elective* (3 credits)
- ___ NUR 201 Psychiatric Nursing (3 credits)
- ___ NUR 205 Introduction to Second Level Nursing (5 credits)
- ___ NUR 236 Principles of Pharmacology III (1 credit)

Fifth Semester (Spring, 15 Credits)

- ___ PSY 232 Life Span Human Development II (3 credits)
- ___ NUR 245 Maternal/Newborn Nursing (3 credits)
- ___ NUR 208 Acute Medical Surgical Nursing (6 credits)
- ___ NUR 237 Principles of Pharmacology IV (1 credit)
- ___ NUR 254 Dimensions of Professional Nursing (2 credit)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

² Students must complete BIO 141 with a "C" or better to enroll in BIO 142.

* **Humanities Electives:** ART 201, 202; ENG 241 or higher; MUS 121, 122; PHI 101; REL 200



LPN to RN BRIDGE

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	60
Program Purpose:	Not designed as a direct transfer program
Program Code:	156-02

PROGRAM COURSE REQUIREMENTS

Pre-Clinical studies must be completed before entering the program

First Semester (17 Credits)

___ SDV 100	College Success Skills (1 credit)
___ BIO 141	Human Anatomy & Physiology I (4 credits)
___ BIO 142	Human Anatomy & Physiology II (4 credits)
___ ENG 111	College Composition I ¹ (3 credits)
___ ITE	ITE 119 Information Literacy OR ITE 100 Introduction to Information Systems (3 credits)
___ MTH 126	Mathematics for Allied Health (2 credits)

Second Semester (Summer, 10 Credits)

___ NUR 115	LPN to RN Transition* (6 credits)
___ NUR 136	Principles of Pharmacology I (1 credit)
___ NUR 137	Principles of Pharmacology II (1 credit)
___ NUR 226	Health Assessment (2 credits)

Third Semester (Fall, 15 Credits)

___ ENG 112	College Composition II (3 credits)
___ NUR 201	Psychiatric Nursing (3 credits)
___ NUR 205	Introduction to Second Level Nursing (5 credits)
___ NUR 236	Principles of Pharmacology III (1 credits)
___ PSY 231	Life Span Human Development I (3 credits)

Fourth Semester (Spring, 18 Credits)

___ NUR 245	Maternal/Newborn Nursing (3 credits)
___ NUR 208	Acute Medical Surgical Nursing (6 credits)
___ NUR 237	Principles of Pharmacology IV (1 credit)
___ NUR 254	Dimensions of Professional Nursing (2 credits)
___ PSY 232	Life Span Human Development II (3 credits)
___ ELECTIVE	Humanities Elective* (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

*Upon completion of NUR 115, credit will be awarded for NUR 105, 108,109, and 114 (15 credits). These credits will appear on the student's official transcript.

* **Humanities Electives:** ART 201, 202; ENG 241 or higher; MUS 121, 122; PHI 101; REL 230

OCCUPATIONAL THERAPY ASSISTANT

Program Length:	2 years (5 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	68
Program Purpose:	Not designed as a direct transfer program
Program Code:	126-01

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

___ BIO 141	Human Anatomy & Physiology (4 credits)
___ ENG 111	College Composition I ¹ (3 credits)
___ HLT 143	Medical Terminology (3 credits)
___ OCT 100	Introduction to Occupational Therapy (3 credits)
___ PSY 230	Development Psychology (3 credit)
___ SDV 100	College Success Skills (1 credit)

Second Semester (18 Credits)

___ BIO 142	Human Anatomy & Physiology II ² (4 credits)
___ OCT 201	Occupational Therapy with Psychosocial Dysfunction (3 credits)
___ OCT 195	Topics in OT for Physical Dysfunction (2 credits)
___ OCT 205	Therapeutic Media (2 credits)
___ NAS 195	Topics in Upper Extremity Anatomy & Kinesiology (1 credit)
___ ELECTIVE	Humanities/ Fine Arts Elective** (3 credits)
___ ITE 115	Introduction to Computer Applications & Concepts* (3 credits)

Third Semester (6 Credits, Summer Semester)

___ OCT 190	Coordinated Practice in Occupational Therapy I (1 credits)
___ OCT 207	Therapeutic Skills (3 credits)
___ OCT 220	Occupational Therapy for Adult (2 credits)

Fourth Semester (14 Credits)

___ OCT 210	Assistive Technology in Occupational therapy (2 credits)
___ OCT 202	Occupational Therapy with Physical Disabilities (4 credits)
___ OCT 203	Occupational Therapy with Developmental Disabilities (4 credits)
___ OCT 208	Occupational Therapy Service Management (3 credits)
___ OCT 190	Coordinated Practice in Occupational Therapy II (1 credits)

Fifth Semester (13 Credits)

___ OCT 290	Coordinated Practice in Occupational Therapy III (6 credits)
___ OCT 290	Coordinated Practice in Occupational Therapy IV (6 credits)
___ OCT 298	Seminar and Project in OTA (1 credit)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

² Students must complete BIO 141 with a "C" or better to enroll in BIO 142.

* AST 232 or ITE 100 may substitute for ITE 115.

** **Arts & Humanities:** PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201- 202.



RADIOGRAPHY

Program Length:	7 semesters
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	72
Program Purpose:	Not designed as a direct transfer program
Program Code:	172-01

PROGRAM COURSE REQUIREMENTS

First Semester (Summer, 12 Credits)

___ RAD 105	Introduction to Radiology Protection & Patient Care (3 credits)
___ SDV 100	College Success Skills (1 credit)
___ RAD 195	Topics in: Ethics, Teamwork & Professional Development (3 credits)
___ MTH 126	Mathematics for Allied Health (2 credits)
___ HLT 143	Medical Terminology (3 credits)

Second Semester (Fall, 17 Credits)

___ ENG 111	College Composition I* (3 credits)
___ BIO 141	Human Anatomy & Physiology I (4 credits)
___ RAD 110	Imaging Equipment & Protection (3 credits)
___ RAD 121	Radiographic Procedures I (4 credits)
___ PSY 230	Developmental Psychology (3 credits)

Third Semester (Spring, 15 Credits)

___	Humanities/ Fine Arts (3 credits)
___ BIO 142	Human Anatomy & Physiology II ² (4 credits)
___ RAD 112	Radiologic Science II (4 credits)
___ RAD 221	Radiographic Procedures II (4 credits)

Fourth Semester (Summer, 6 Credits)

___ RAD 190	Coordinated Internship (Term II) (3 credits)
___ RAD 205	Radiation Protection & Radiobiology (3 credits)

Fifth Semester (Fall, 9 Credits)

___ RAD 290	Coordinated Internship (6 credits)
___ RAD 255	Radiographic Equipment (3 credits)

Sixth Semester (Spring, 9 Credits)

___ RAD 290	Coordinated Internship (6 credits)
___ RAD 240	Radiographic Pathology (3 credits)

Seventh Semester (Summer, 4 Credits)

___ RAD 215	Correlated Radiographic Theory (2 credits)
___ RAD 290	Coordinated Internship (Term II) (2 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

² Students must complete BIO 141 with a "C" or better to enroll in BIO 142.

*Students who wish to pursue a Baccalaureate Degree are advised to take both ENG 111-112. ENG 101 may be substituted for ENG 111, but is not a transferable course.

** **Arts & Humanities:** PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201- 202.

HUMAN SERVICES

Specialization: Early Childhood Education

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	67
Program Purpose:	Not designed as a direct transfer program
Program Code:	480-02

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

- ___ ENG 111 College Composition I* (3 credits)
- ___ HMS 100 Introduction to Human Services (3 credits)
- ___ HMS 121 Basic Counseling Skills I (3 credits)
- ___ PSY 231 Lifespan Human Development I (3 credits)
- ___ PSY 200 Principles of Psychology (3 credits)
- ___ SDV 100 College Success Skills (1 credit)

Second Semester (18 Credits)

- ___ ENG 112 College Composition II (3 credits)
- ___ ITE 115 Introduction to Computer Applications and Concepts (3 credits)
- ___ HLT/PED PED Elective or HLT 100 (3 credits)
- ___ MTH Mathematics (MTH 151 or 163) (3 credits)
- ___ HMS 122 Basic Counseling Skills II (3 credits)
- ___ PSY Elective (3 credits)

Third Semester (15 Credits)

- ___ CHD 145 Teaching Art, Music & Movement to Children (3 credits)
- ___ CHD 118 Language Arts for Young Children (3 credits)
- ___ CHD 120 Introduction to Early Childhood Education (3 credits)
- ___ MEN 101 Mental Health Skills Training I (3 credits)
- ___ ELECTIVE Humanities/Fine Arts Elective** (3 credits)

Fourth Semester (18 Credits)

- ___ CHD 146 Math, Science and Social Studies for Children (3 credits)
- ___ MEN 102 Mental Health Skills Training II (3 credits)
- ___ CHD 215 Models of Early Childhood Education Program (3 credits)
- ___ ECO Economics (ECO 120 or ECO 201) (3 credits)
- ___ ELECTIVE Elective (3 credits)
- ___ HMS 190 Coordinated Internship in Early Childhood Education (3 credit)

Program Notes:

¹Developmental coursework may require additional semesters to complete program.

*Students who do not wish to pursue a Baccalaureate degree may substitute ENG 101-102 for ENG 111-112.

** **Arts & Humanities:** PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201-202.



HUMAN SERVICES

Specialization: Gerontology

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	65
Program Purpose:	Not designed as a direct transfer program
Program Code:	480-03

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

___ ENG 111	College Composition I* (3 credits)
___ HMS 100	Introduction to Human Services (3 credits)
___ HMS 121	Basic Counseling Skills I (3 credits)
___ MEN 101	Mental Health Skills Training I (3 credits)
___ PSY 200	Principles of Psychology (3 credits)
___ SDV 100	College Success Skills (1 credit)

Second Semester (18 Credits)

___ ENG 112	College Composition II (3 credits)
___ PSY 232	Life Span Human Development II (3 credits)
___ MTH	Mathematics (MTH 151 or 163) (3 credits)
___ HMS 122	Basic Counseling Skills II (3 credits)
___ MEN 102	Mental Health Skills II (3 credits)
___ SOC 200	Principles to Sociology (3 credits)

Third Semester (17 Credits)

___ PSY 231	Life Span Human Development (3 credits)
___ HLT 100	First Aid & Cardiopulmonary Resuscitation (2 credits)
___ ITE 115	Introduction to Computer Applications and Concepts (3 credits)
___ HMS 231	Gerontology I (3 credits)
___ SOC 268	Social Problems (3 credits)
___ ELECTIVE	Humanities/Fine Arts Elective** (3 credits)

Fourth Semester (14 Credits)

___ HMS 232	Gerontology II (3 credits)
___ DIT 125	Current Concepts In Diet & Nutrition (3 credits)
___ MEN 245	Problems in Aging (3 credits)
___ PED 116	Lifetime Fitness & Wellness (2 credits)
___ HMS 190	Coordinated Clinical Practice (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

*Students who do not wish to pursue a Baccalaureate degree may substitute ENG 101-102 for ENG 111-112.

** **Arts & Humanities:** PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201- 202.

HUMAN SERVICES

Specialization: Mental Health

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	66
Program Purpose:	Not designed as a direct transfer program
Program Code:	480-01

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

- ___ ENG 111 College Composition I* (3 credits)
- ___ HMS 100 Introduction to Human Services (3 credits)
- ___ HMS 121 Basic Counseling Skills I (3 credits)
- ___ MEN 101 Mental Health Skills Training I (3 credits)
- ___ PSY 200 Principles of Psychology (3 credit)
- ___ SDV 100 College Success Skills (1 credit)

Second Semester (18 Credits)

- ___ ENG 112 College Composition II* (3 credits)
- ___ ITE 115 Introduction to Computer Applications and Concepts (3 credits)
- ___ MTH Mathematics (MTH 151 or 163)¹ (3 credits)
- ___ HMS 122 Basic Counseling Skills II (3 credits)
- ___ MEN 102 Mental Health Skills Training I (3 credits)
- ___ SOC 200 Principles of Sociology (3 credits)

Third Semester (17 Credits)

- ___ PSY 231 Life Span Human Development I (3 credits)
- ___ HLT/PED HLT 100 or PED Elective (2 credits)
- ___ PSY Psychology Elective (3 credits)
- ___ HMS Human Service Elective (3 credits)
- ___ SOC 268 Social Problems (3 credits)
- ___ ELECTIVE Humanities/Fine Arts Elective** (3 credits)

Fourth Semester (15 Credits)

- ___ PSY 232 Life Span Human Development II (3 credits)
- ___ MEN 225 Counseling Techniques (3 credits)
- ___ PSY 215 Abnormal Psychology (3 credits)
- ___ ECO Economics (ECO 120 or ECO 201) (3 credits)
- ___ HMS 190 Coordinated Internship in Mental Health** (3 credits)

Program Notes:

¹Developmental coursework may require additional semesters to complete program.

*Students who do not wish to pursue a Baccalaureate degree may substitute ENG 101-102 for ENG 111-112.

**Requires approval of the Human Services Advisor

*** **Arts & Humanities:** PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201-202.



HUMAN SERVICES

Specialization: Substance Abuse

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS))
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	66
Program Purpose:	Not designed as a direct transfer program
Program Code:	480-04

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

___ ENG 111	College Composition I* (3 credits)
___ SOC 200	Principles of Sociology (3 credits)
___ HMS 121	Basic Counseling Skills I (3 credits)
___ PSY 231	Life Span Human Development I (3 credits)
___ PSY 200	Principles of Psychology (3 credit)
___ SDV 100	College Success Skills (1 credit)

Second Semester (18 Credits)

___ ENG 112	College Composition II* (3 credits)
___ ITE 115	Introduction to Computer Applications and Concepts (3 credits)
___ MTH 151	Mathematics for the Liberal Arts ¹ (3 credits)
___ HMS 122	Basic Counseling Skills II (3 credits)
___ PSY 232	Life Span Human Development II (3 credits)
___ ELECTIVE	Humanities/Fine Arts Elective*** (3 credits)

Third Semester (17 Credits)

___ HLT/PED	HLT 100 or PED Elective (2 credits)
___ HMS 141	Group Dynamics I (3 credits)
___ HMS 145	Effects of Psychoactive Drugs (3 credits)
___ HMS 251	Substance Abuse I (3 credits)
___ PSY 120	Human Relations (3 credits)
___ HMS 266	Counseling Psychology (3 credits)

Fourth Semester (15 Credits)

___ HMS 142	Group Dynamics II (3 credits)
___ HMS 252	Substance Abuse II (3 credits)
___ HMS 258	Case Management & Substance Abuse (3 credits)
___ ECO 201	Principles of Economics-Macroeconomics (3 credits)
___ HMS 290	Coordinated Internship /Substance Abuse** (3 credits)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

*Students who do not wish to pursue a Baccalaureate degree may substitute ENG 101 for ENG 111.

**Requires approval of the Human Services Advisor

*** **Arts & Humanities:** PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201- 202.

EARLY CHILDHOOD DEVELOPMENT

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	67
Program Purpose:	Not designed as a direct transfer program
Program Code:	636-03

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

___ SDV 100	College Success Skills (1 credits)
___ ENG 111	College Composition I* (3 credits)
___ CHD 120	Introduction to Early Childhood Education (3 credits)
___ CHD 145	Teaching Art, Music, and Movement to Children (3 credits)
___ PSY 231	Life Span Human Development I (3 credits)
___ CHD 118	Language Arts for Young Children (3 credits)

Second Semester (18 Credits)

___ CHD 215	Models of Early Childhood Education Programs (3 credits)
___ CHD 165	Observation & Participation in Early Childhood/Primary Settings (3 credits)
___ CHD 146	Math, Science, and Social Studies for Children (3 credits)
___ ENG 112	College Composition II* (3 credits)
___ CHD 117	Introduction to Reading Methods (3 credits)
___ HLT 135	Child Health & Nutrition (3 credits)

Third Semester (17 Credits)

___ MTH	Mathematics (MTH 151 or MTH 120 ¹) (3 credits)
___ CHD 205	Guiding the Behavior of Children (3 credits)
___ CHD 216	Early Childhood Programs, Schools & Social Change (3 credits)
___ HLT 100	First Aid & Cardiopulmonary Resuscitation (2 credits)
___ CST 100	Principles of Public Speaking (3 credits)
___ ELECTIVE	Social/Behavior Science or Free Elective*** (3 credits)

Fourth Semester (16 Credits)

___ CHD 265	Adv. Observation & Participation in Early Child. /Primary Settings (3 credits)
___ CHD 166	Infant & Toddler Programs (3 credits)
___ CHD 210	Introduction to Exceptional Children (3 credits)
___ CHD 270	Administration of Childcare Program (3 credits)
___ ELECTIVE	Humanities/ Fine Arts Elective** (3 credits)
___ CHD 298	Seminar and Project in Portfolio Development (1 credit)

Program Notes:

¹ Developmental coursework may require additional semesters to complete program.

*Students who do not wish to pursue a Baccalaureate degree may substitute ENG 101-102 for ENG 111-112.

** **Arts & Humanities:** PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201-202..

***Recommend ITE 115 as free elective.



ADMINISTRATION OF JUSTICE

Program Length:	2 years (5 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	66
Program Purpose:	Not designed as a direct transfer program
Program Code:	400-01

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

- ENG Practical Writing I **OR** College Composition I¹* (3 credits)
- ADJ 100 Survey of Criminal Justice (3 credits)
- ADJ 133 Criminal Justice Ethics (3 credits)
- ADJ 228 Narcotics and Dangerous Drugs (3 credits)
- SDV 101 Orientation to Administration of Justice (1 credit)

Second Semester (14 Credits)

- ENG Practical Writing II **OR** College Composition II¹* (3 credits)
- ADJ 131 Legal Evidence (3 credits)
- ITE Computer Applications in Administration of Justice **OR**
Introduction to Computer Applications and Concepts (3 credits)
- ADJ 105 The Juvenile Justice System (3 credit)
- HLT 105 CPR or PED Elective* (2 credits)

Third Semester (13 Credits)

- PLS/HIS Political Science or History Elective (3 credits)
- CST 100 Principles of Public Speaking (3 credits)
- ADJ 138 Defensive Tactics for Police* (2 credits)
- ADJ/PED Topics in Law Fit (ADJ 195) **OR**
Lifetime Wellness and Fitness* (PED 116) (2 credits)
- SOC 200 Principles to Sociology (3 credit)

Fourth Semester (13 Credits)

- ADJ 211 Criminal Law, Evidence and Procedures I (3 credits)
- ADJ 171 Forensic Science I & Lab (4 credits)
- ELECTIVE Humanities Elective (3 credits)
- PSY General Psychology **OR** Life Span Human Development (3 credits)

Fifth Semester (13 Credits)

- ADJ 172 Forensic Science II & Lab (4 credits)
- ADJ 201 Criminology I (3 credits)
- ADJ Coordinated Internship or Capstone Project in ADJ * (3 credits)
- MTH Math for Liberal Arts **OR** Probability & Statistics (3 credits)

¹ Developmental coursework may require additional semesters to complete program.

* All transfer students should take English 111/112. ENG 101-102 **WILL NOT** transfer to a senior college or university.

* All transfer students should consult the transfer guide for the senior college or university they wish to attend prior to completing the Political Science/History and Mathematics requirement.

* Students wishing to transfer to senior colleges or universities should consult the ADJ Program Director for articulation agreements and further requirements particularly in the general core classes.

* Students wishing to take the ADJ-290 Coordinated Internship in lieu of the ADJ-298 Seminar and Project must have at least a 3.0 Cumulative GPA as well as approval from the Program Director.

* Students completing the Administration of Justice degree online may opt for the PED Elective. Those in residence must take HLT-105.

* Students completing the Administration of Justice degree online may opt for PED-116 Lifetime Wellness and Fitness. Those in residence must take ADJ-195 Topics in Law Fit.

* Students completing the Administration of Justice degree online must complete ADJ-293 Studies in Police Use of Force in lieu of ADJ-138 Defensive Tactics.

ADMINISTRATION OF JUSTICE

Specialization: Emergency Management & Preparedness

Program Length:	2 years (4 semesters)
Academic Awards:	Associate of Applied Science (AAS)
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	66
Program Purpose:	Not designed as a direct transfer program
Program Code:	400-04

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

- ___ ENG 111 College Composition^{1*} (3 credits)
- ___ ADJ 100 Survey of Criminal Justice (3 credits)
- ___ PBS 140 Principles of Emergency Management (3 credits)
- ___ SDV 101 Orientation to Administration of Justice (1 credit)
- ___ CST 100 Principles of Public Speaking (3 credits)
- ___ HLT 105 CPR (1 credit)
- ___ ADJ 228 Narcotics and Dangerous Drugs (3 credits)

Second Semester (18 Credits)

- ___ ENG 112 College Composition II* (3 credits)
- ___ ADJ 131 Legal Evidence (3 credits)
- ___ PBS 145 Resource Management and Mitigation for Emergency Managers (3 credits)
- ___ ITE Computer Applications in Administration of Justice **OR**
Introduction to Computer Applications and Concepts (3 credits)
- ___ ELECTIVE Political Science or History Elective (3 credits)
- ___ HLT 110 Personal and Community Health (3 credits)

Third Semester (16 Credits)

- ___ ADJ 133 Criminal Justice Ethics (3 credits)
- ___ PBS 210 Laws Regarding the Public Sector and Emergency Management (3 credits)
- ___ PBS 220 Disaster Response and Recovery (3 credits)
- ___ ADJ 171 Forensic Science I & Lab (4 credits)
- ___ SOC 200 Principles to Sociology (3 credits)

Fourth Semester (15 Credits)

- ___ ADJ 201 Criminology I (3 credits)
- ___ PBS 298 Seminar & Project in Emergency Management (3 credits)
- ___ ELECTIVE Humanities Elective (3 credits)
- ___ MTH Math for Liberal Arts or Probability & Statistics (3 credits)
- ___ PSY General Psychology PSY 200 **OR**
Life Span Human Development PSY 231(3 credits)

¹ Developmental coursework may require additional semesters to complete program.

* All transfer students should take English 111/112. ENG 101-102 WILL NOT transfer to a senior college or university.

* All transfer students should consult the transfer guide for the senior college or university they wish to attend prior to completing the Political Science/History, Mathematics as well as the ITE requirement. Students wishing to enter the field immediately after graduation are highly encouraged to take ADJ 168 as this content is a requirement to perform law enforcement or correctional work.

* Students wishing to transfer to senior colleges or universities should consult the ADJ Program Director for articulation agreements and further requirements particularly in the general core classes.



DIPLOMA PROGRAMS

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WELDING

Program Length:	2 years (4 semesters)
Academic Awards:	Diploma
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	61
Program Purpose:	NON-TRANSFER
Program Code:	707-01

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

- ___ WEL 160 Gas Metal Arc Welding (3 credits)
- ___ WEL 130 Inert Gas Welding (3 credits)
- ___ WEL 150 Welding Drawing and Interpretation (3 credits)
- ___ WEL 117 Oxyfuel Welding & Cutting (3 credits)
- ___ WEL 123 Shielded Metal Arc Welding (Basic) (3 credits)
- ___ SAF 127 Industrial Safety (2 credits)

Second Semester (13 Credits)

- ___ WEL 141 Welder Qualification Test (3 credits)
- ___ WEL 129 Piping and Fabrication (3 credits)
- ___ WEL 126 Pipe Welding I (3 credits)
- ___ SDV 106 Preparation for Employment (1 credit)
- ___ WEL 142 Welder Qualification Test II (3 credits)

Third Semester (15 Credits)

- ___ MAC 161 Machine Shop Practices I (3 credits)
- ___ PSY PSY Elective (3 credits)
- ___ MAC 162 Machine Shop Practices II (3 credits)
- ___ MTH 103 Applied Technical Mathematics I (3 credits)
- ___ ITE 115 Introduction to Computer Applications & Concepts (3 credits)

Fourth Semester (16 Credits)

- ___ MAC 163 Machine Shop Practices III (3 credits)
- ___ MAC 121 Numerical Control I (3 credits)
- ___ MAC 164 Machine Shop Practices IV (3 credits)
- ___ MTH 104 Applied Technical Mathematics II (3 credits)
- ___ ENG ENG 101 or ENG 111 (3 credits)
- ___ ELECTIVE Elective (1 credit)

CERTIFICATE PROGRAMS

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ARTS & CRAFTS PRODUCTION—Currently in Teach Out*

Program Length:	1 year (2 semesters)
Academic Awards:	Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	34
Program Purpose:	NON-TRANSFER
Program Code:	597-01

The Arts & Crafts Production certificate program is designed to prepare students for careers as practicing craft persons and professional artists. The self-employed craft persons will benefit in the production of crafts by increasing their artistic abilities and developing their business, organization, planning, and communication skills.

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

- ___ ENG 101 Practical Writing I¹ (3 credits)
- ___ CRF Hand Built Pottery 101 **OR** Introduction to Crafts 110 (3 credits)
- ___ ART 121 Drawing I (3 credits)
- ___ ART 131 Fundamentals of Design I (3 credits)
- ___ ART/CRF Introduction to Painting ART125 **OR** Survey of Hand Crafts CRF 100 **OR** Computer Graphics I ART 283 (3 credits)
- ___ SDV 100 College Success Skills (1 credit)

Second Semester (18 Credits)

- ___ PSY/SOC Principles of Psychology **OR** Principles of Sociology (3 credits)
- ___ BUS 165 Small Business Management (3 credits)
- ___ ART 287 Portfolio and Resume Preparation (3 credits)
- ___ CRF 107 Hand Crafted Leather Work (3 credits)
- ___ ART/CRF Drawing II ART 122 **OR** Wheel Thrown Pottery CFF 102 (3 credits)
- ___ Fundamentals of Design II ART 132 **OR** Sculpture I ART 231 **OR** Airbrush I ART 171
- ___ ART 290 Coordinated Internship (3 credits)

*Contact Dean Cathy Smith-Cox—This program is being discontinued. No new students will be admitted to this program.



EARLY CHILDHOOD EDUCATION

Program Length:	1 year (2 semesters)
Academic Awards:	Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	30
Program Purpose:	NON-TRANSFER
Program Code:	634-01

The certificate program is designed to prepare individuals for employment in a variety of situations where care and maintenance of young children is the primary objective. Practitioners already employed in the child care function may find this program appropriate for upgrading and broadening their paraprofessional abilities and qualifications.

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

___ CHD 145	Teaching Art, Music and Movement to Children (3 credits)
___ CHD 118	Language Arts for Young Children (3 credits)
___ CHD 120	Introduction to Early Childhood Education (3 credits)
___ ENG 101	Practical Writing I ¹ (3 credits)
___ SDV 100	College Success Skills (1 credit)

Second Semester (18 Credits)

___ CHD 146	Math, Science and Social Studies for Children (3 credits)
___ CHD 215	Models for Early Childhood Education Programs (3 credits)
___ CHD 165	Observ. & Participation in Early Childhood/Primary Settings (3 credits)
___ ENG 102	Practical Writing II (3 credits)
___ HLT 135	Child Health and Nutrition (3 credits)
___ HLT 100	First Aid & Cardiopulmonary Resuscitation (2 credits)

Program Guide:

¹ Developmental coursework may require additional semesters to complete program.

GENERAL EDUCATION

Program Length:	1 year (2 semesters)
Academic Awards:	Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	33
Program Purpose:	NON-TRANSFER
Program Code:	695-01

The Certificate in General Education prepares first time job seekers with the basic competencies which can help them be more competitive in the job market and more valuable in the workplace. For those individuals who wish to continue their education, the general education certificate provides foundational courses that allow students to progress toward the associate degree or to transfer to a senior institution.

PROGRAM COURSE REQUIREMENTS

First Semester (17 Credits)

- ___ SDV 100 College Success Skills (1 credit)
- ___ ELECTIVE Humanities/Fine Arts Elective* (3 credits)
- ___ MTH Math for Liberal Arts I Pre-Calculus I (3 credits)
- ___ HIS 121 U.S. History I (3 credits)
- ___ BIO 101 General Biology I** (4 credits)
- ___ ENG 111 College Composition I (3 credits)

Second Semester (16 Credits)

- ___ ENG 112 College Composition II (3 credits)
- ___ CST 100 Principles of Public Speaking (3 credits)
- ___ HIS 122 U.S. History II (3 credits)
- ___ PSY 200 Principles of Psychology (3 credits)
- ___ BIO 102 General Biology II** (4 credits)

Program Guide:

¹ Developmental coursework may require additional semesters to complete program.

* **Arts & Humanities:** PHI 101-102; ART101-102; MUS 121-122; ENG 241-242; ENG 243-244; REL 230, SPA 101-102, 201-202; FRE 101-102, 201-202.

**Lab Sciences may also Include: CHM 111-112, GOL 105-106, PHY 201-202 or 241-242



HEALTH SCIENCES

Program Length:	1 year (2 semesters)
Academic Awards:	Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	30
Program Purpose:	NON-TRANSFER
Program Code:	190-06

This program is designed for those individuals interested in pursuing a career in the health professions. The program will enable students interested in health care professions to acquire an academic foundation to continue their education in one of the health programs. The program can also be used as a stepping-stone to the Associate of Arts & Science degree. Students should consult an academic advisor for any course substitutions to this curriculum.

PROGRAM COURSE REQUIREMENTS

First Semester (14 Credits)

___ ENG 111	College Composition I ¹ * (3 credits)
___ BIO 141	Human Anatomy & Physiology I ^{**} (4 credits)
___ HLT 143	Medical Terminology I (3 credits)
___ SDV 100	College Success Skills (1 credit)
___ PSY 231	Human Life Span Development I (3 credits)

Second Semester (16 Credits)

___ ENG 112	College Composition II* (3 credits)
___ BIO 142	Human Anatomy & Physiology II ^{2**1} (4 credits)
___ AST 232	Microcomputer Office App (3 credits)
___ PSY 232	Human Life Span Development II (3 credits)
___ ELECTIVE	Elective ^{***} (3 credits)

Program Guide:

¹ Developmental coursework may require additional semesters to complete program.

² Students must complete BIO 141 with a "C" or better to enroll in BIO 142.

*Students who do not place in college composition should take the appropriate developmental course.

**Students lacking high school chemistry and or biology should take CHM 05 and BIO 20. Students lacking only one of these courses may start the BIO 141 in second semester upon completion of Chemistry and/or Biology.

***Electives should be chosen with the advice of healthcare faculty or the Division Dean for Math, Science, & Health Technology.

Students pursuing nursing may elect Math 126 in the second semester if placement testing allows. Students may also consider Math 240 with program advisement and if placement scores allow.

HEATING, VENTILATION, & AIR CONDITIONING

Program Length:	1 year (3 semesters)
Academic Awards:	Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	49
Program Purpose:	NON-TRANSFER
Program Code:	903-01

Demands for trained, certified personnel to serve a variety of industries and businesses who sell, service, and maintain modern heating, ventilating, and air conditioning equipment are very much in evidence. This program is designed to train individuals in basics of Heating, Ventilation, and Air Conditioning (HVAC) technology. Persons completing this course of study should be able to enter the workforce as an entry level Maintenance Technician.

PROGRAM COURSE REQUIREMENTS

First Semester (18 Credits)

- ___ AIR 121 Air Conditioning & Refrigeration I (4 credits)
- ___ AIR 122 Air Conditioning & Refrigeration II (4 credits)
- ___ AIR 134 Circuits & Controls I (3 credits)
- ___ ELE 140 Basic Electricity & Machinery (4 credits)
- ___ MTH 103 Applied Technical Mathematics I (3 credits)

Second Semester (18 Credits)

- ___ AIR 136 Circuits & Controls III (4 credits)
- ___ ELE 135 National Electric Code-Residential (4 credits)
- ___ ENG ENG Elective (3 credits)
- ___ AIR 165 Air Conditioning Systems I (4 credits)
- ___ BLD 111 Blueprint Reading and the Building Code (3 credits)

Third Semester (13 Credits)

- ___ BLD 122 Green Building Practices (1 credit)
- ___ SDV 106 Preparation for Employment (1 credits)
- ___ AIR 235 Heat Pumps (4 credits)
- ___ AIR 154 Heating Systems I (3 credits)
- ___ AIR 190 Coordinated Internship (3 credits)
- ___ AIR 276 Refrigerant Usage EPA Certification (1 credit)



HUMAN SERVICES TECHNOLOGY

Program Length:	1 year (3 semesters)
Academic Awards:	Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	43
Program Purpose:	NON-TRANSFER
Program Code:	469-01

There is a growing need for entry-level human services workers as aides, attendants, instructors, and paraprofessionals. This certificate program is designed to prepare individuals for potential employment in settings where social welfare, health, mental health, substance abuse, mental retardation, and residential services are provided. The program will expose students to the structure, purpose, philosophy, and services of these programs, and survey the basic skills and characteristics necessary for human service providers. Awareness of professional careers in these fields will be gained.

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

___ HMS 100	Introduction to Human Services (3 credits)
___ HMS 121	Basic Counseling Skills I (3 credits)
___ ENG 111	College Composition I* (3 credits)
___ SDV 100	College Success Skills (1 credit)
___ MEN 101	Mental Health Skills I (3 credits)
___ PSY 200	Principles of Psychology (3 credits)

Second Semester (18 Credits)

___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)
___ PSY 215	Abnormal Psychology (3 credits)
___ MEN 225	Counseling Therapy (3 credits)
___ ENG 112	College Composition II* (3 credits)
___ HMS 122	Basic Counseling Skills II (3 credits)
___ PSY 120	Human Relations (3 credits)

Third Semester (9 Credits)

___ MEN 102	Mental Health Skills II (3 credits)
___ HMS 190	Coordinated Internship in Human Services** (3 credits)
___ ELECTIVE	Social Sciences Elective*** (3 credits)

Program Guide:

¹ Developmental coursework may require additional semesters to complete program.

* Students who do not wish to pursue a Baccalaureate degree may substitute ENG 101-102 for ENG 111-112.

** HMS 190 requires approval of the Human Services advisor.

*****Electives:** ECO 201-202; HIS 101-102; PLS 211-212; PSY 231-232; SOC 200; GEO 200, GEO 210

LAW ENFORCEMENT

Program Length:	1 year (2 semesters)
Academic Awards:	Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	33
Program Purpose:	NON-TRANSFER
Program Code:	463-01

The certificate curriculum in law enforcement has been developed in accordance with the need of local law enforcement agencies and personnel. The program is designed to meet the needs of the large number of local in-service law enforcement personnel and pre-service students who at present do not possess the necessary qualifications for entrance into the associate degree program in administration of justice or for other reasons do not wish to continue their education or in the interim obtain the necessary qualifications for the associate degree program. All credits obtained in the certificate program will be transferable.

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

- ___ ENG Practical Writing or College Composition I¹* (3 credits)
- ___ ADJ 133 Criminal Justice Ethics (3 credits)
- ___ ADJ 100 Survey of Criminal Justice (3 credits)
- ___ SDV 100 College Success Skills (1 credit)
- ___ CST 100 Principles of Public Speaking (3 credits)
- ___ ADJ 228 Narcotics and Dangerous Drugs (3 credits)

Second Semester (17 Credits)

- ___ ENG Practical Writing II or College Composition II* (3 credits)
- ___ ADJ 131 Legal Evidence (3 credits)
- ___ ITE Computer Applications in Administration of Justice **OR**
Introduction to Computer Applications & Concepts (3 credits)
- ___ PLS/HIS Political Science or History Elective (3 credits)
- ___ ADJ 105 Juvenile Justice (3 credits)
- ___ PED Exercise and Nutrition I **OR** Lifetime Wellness and Fitness (2 credits)

Program Guide:

¹Developmental coursework may require additional semesters to complete program.

NOTE:

- All transfer students should take English 111/112. English 101/102 will not transfer to a senior college or university.
- All transfer students should consult the transfer guide for the senior college or university they wish to attend prior to completing the Political Science/History requirement.
- Students wishing to transfer to senior colleges or universities should consult the ADJ Program Director for articulation agreements and further requirements particularly in the general core classes.
- Students completing the Administration of Justice degree online must complete the online version of this course which includes an original research project on Police/Correctional Use of Force.

*Students completing the Administration of Justice degree online may opt for PED-116 Lifetime Wellness and Fitness. Those in residence must take PED-107 Exercise and Nutrition I.



LEGAL STUDIES

Program Length:	1 year (2 semesters)
Academic Awards:	Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	37
Program Purpose:	NON-TRANSFER
Program Code:	261-01

The Legal Studies Certificate program is designed to prepare individuals with the skills and knowledge of the law and legal issues needed to work in various careers. These careers include legal assistant, paralegal, and other law related professions.

PROGRAM COURSE REQUIREMENTS

First Semester (19 Credits)

___ SDV 100	College Success Skills (1 credit)
___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)
___ LGL 127	Legal Research & Writing (3 credits)
___ PSY 120	Human Relations (3 credits)
___ LGL 130	Law Office Administration & Accounting (3 credits)
___ LGL 110	Introduction to Law and the Legal Assistant (3 credits)
___ BUS 241	Business Law (3 credits)

Second Semester (18 Credits)

___ ENG 111	English Composition I (3 credits)
___ LGL 225	Estate Planning & Probate (3 credits)
___ LGL 230	Legal Transactions (3 credits)
___ LGL 117	Family Law I (3 credits)
___ LGL 217	Trial Practice & Law Evidence (3 credits)
___ LGL 190	Coordinated Internship (3 credits)

Program Notes:

Students who plan to complete the Legal Studies certificate and the AA&S in Business Administration for transfer should complete an Approved Elective rather than ITE 115 and BUS 241. Approved Elective List: ACC 220 Accounting for Small Business, LGL 126 Legal Writing, LGL 218 Criminal Law, ADJ 131 Legal Evidence, LGL 125 Legal Research, LGL 226 Real Estate Abstracting, BUS 242 Business Law II, LGL 150 Law and Mediation, ENV 227 Environment Law

PRACTICAL NURSING

Program Length:	2 year (4 semesters)
Academic Awards:	Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	49
Program Purpose:	NON-TRANSFER
Program Code:	157-01

The practical nurse program prepares students to qualify as contributing members of the health care team, rendering patient care as practical nurses in a variety of health service facilities. At the successful completion of the program, and application approval of the state board of nursing, students will be eligible to sit for the NCLEX exam, leading to licensure as a practical nurse.

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

- ___ PNE 155 Body Structure and Function (3 credits)
- ___ HLT 130 Nutrition Diet Therapy (1 credit)
- ___ SDV 100 College Success Skills (1 credit)
- ___ PNE 146 Fundamentals of Practical Nursing (6 credits)
- ___ PNE 174 Applied Pharmacology (1 credit)
- ___ PNE 195 Topics in PNE Student Success (1 credit)

Second Semester (14 Credits)

- ___ PNE 151 Medical Surgical Nursing I (4 credits)
- ___ PNE 181 Clinical Experience (5 credits)
- ___ PNE 173 Pharmacology I (2 credits)
- ___ ENG 101 Practical Writing¹ (3 credits)

Third Semester (8 Credits)

- ___ PNE 130 Maternity Nursing (4 credits)
- ___ PNE 157 Maternal and Child Health Nursing (4 credits)

Fourth Semester (14 Credits)

- ___ PNE 295 Topics in NCLEX Success (1 credits)
- ___ PNE 152 Medical Surgical Nursing II (4 credits)
- ___ PNE 145 Trends in Practical Nursing (1 credit)
- ___ PNE 158 Mental Health/Psychiatric Nursing (2 credits)
- ___ PNE 182 Clinical Experience II (6 credits)

Program Guide:

¹ Developmental coursework may require additional semesters to complete program.

*The board of nursing assesses NCLEX-PN pass rates on an annual basis from January thru December of each calendar year. The calculations are only a reflection of the 1st testing attempt of students who test for boards. All students who test within the given calendar year are combined in the overall percentage whether the graduate testing was from the assigned year of testing or another cohort (with the exception of 2006 & 2007 cohorts).

All students are strongly advised by the director of the program to test for the NCLEX-PN immediately following graduation for best passage results of boards on the first attempt of testing. As of July of 2011, all students, prior to graduation of the program, must pass the ATI NCLEX-PN predictor test with an 80% or above, make application to the board of nursing, pay testing fees, and register for a Virtual ATI NCLEX-PN review



SUBSTANCE ABUSE REHABILITATION COUNSELOR

Program Length:	1 year (2 semesters)
Academic Awards:	Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	37
Program Purpose:	NON-TRANSFER
Program Code:	403-01

This program is designed to fulfill the Virginia state educational requirements for the certification of substance abuse counselors. To meet substance abuse counselor certification requirements, the applicant is expected to meet specific educational requirements including didactic and experiential learning with a supervised internship required. The program is designed to be completed within one academic year and will serve as a specialization under the Human Services Program at Southwest Virginia Community College. Effective June 30, 2003, applicants for Virginia's CSAC must possess a Bachelor's degree.

PROGRAM COURSE REQUIREMENTS

First Semester (19 Credits)

___ ENG 111	College Composition I (3 credits)
___ HMS 121	Basic Counseling Skills I (3 credits)
___ HMS 141	Group Dynamics (3 credits)
___ HMS 251	Substance Abuse (3 credits)
___ HMS 266	Counseling Psychology (3 credits)
___ PSY 232	Lifespan Human Development II (3 credits)
___ SDV 100	College Success Skills (1 credit)

Second Semester (18 Credits)

___ HMS 142	Group Dynamics II (3 credits)
___ HMS 145	Effects of Psychoactive Drugs (3 credits)
___ HMS 252	Substance Abuse II (3 credits)
___ HMS 258	Case Management & Substance Abuse (3 credits)
___ HMS 290	Coordinated Internship* (3 credits)
___ PSY 120	Human Relations (3 credits)

Program Guide:

*Students will be expected to complete AT LEAST three (3) semester hours of cooperative education to complete the state requirements for licensure. Students having equivalent experience have the option of submitting documentation of said experience for review for credit by experience.

CAREER STUDIES

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ADVANCED STUDIES IN SCIENCE

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	27
Program Purpose:	NON-TRANSFER
Program Code:	221-190-01

Designed for those individuals interested in pursuing a career in the health professions. This program will enable students interested in health care professions to acquire advanced preparation for the health care field. Students should consult an academic advisor for any course substitutions to this curriculum.

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

___ MTH 163	Pre-Calculus I (3 credits)
___ ELECTIVE	Social Science Elective (3 credits)
___ PHY	PHY Elective (3 Credits)
___ BIO 141	Human Anatomy & Physiology I (4 credit)

Second Semester (14 Credits)

___ BIO 142	Human Anatomy & Physiology II (4 credit)
___ CHM 260	Introductory Biochemistry (3 credits)
___ BIO 205	General Microbiology (4 credits)
___ HLT	HLT Elective (3 credit)

ADVENTURE TOURISM

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	29
Program Purpose:	NON-TRANSFER
Program Code:	221-212-79

Entrepreneurs are the foundation of most industries. The adventure tourism curriculum prepares students to be small business owners in the tourism industry. The difference between these and other small businesses is the focus on outdoor recreation activities, which could range from bed and breakfasts to an outfitter providing guided hiking, biking, kayaking, or climbing trips.

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)
___ RPK 265	Risk Management (3 credits)
___ RPK 100	Introduction to Recreation, Parks & Leisure Studies (3 Credits)
___ RPK 103	Preparation for Wilderness Adventure (1 credit)
___ RPK 141	Leadership & Supervision (3 credits)
___ RPK 140	Land Use Ethics (1 credit)
___ RPK 160	Wilderness First Aid (2 credits)

Second Semester (13 Credits)

___ RPK 102	Outdoor Recreation in the Appalachian Ecosystem (2 credits)
___ ACC 220	Accounting for Small Businesses (3 credits)
___ MKT 170	Customer Service (2 credits)
___ RPK 151	Orienteering (1 credit)
___ RPK	(RPK 190) Coordinated Internship OR (RPK 198) Capstone Course (2 credits)
___ BUS	Entrepreneurship OR BUS 165 Small Business Management (3 credits)

APPALACHIAN STUDIES

Program Length:	1 semester
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	12
Program Purpose:	NON-TRANSFER
Program Code:	221-694-01

The Appalachian Studies Career Studies Certificate is an interdisciplinary program with course work in Appalachian hand crafts, theatre, music and Appalachian folklore. Each course revolves around the history and culture of the Appalachian Mountains and serves as a means to preserve the cultural heritage.

PROGRAM COURSE REQUIREMENTS

First Semester (12 Credits)

- ___ CRF 100 Survey of Hand Crafts (3 credits)
- ___ CST 130 Introduction to the Theatre (Barter) (3 credits)
- ___ MUS 193 Studies in Traditional Music I (3 credits)
- ___ ENG 288 Appalachian Folklore (3 credit)

AGRIBUSINESS

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	20
Program Purpose:	NON-TRANSFER
Program Code:	221-335-30

Designed to provide the students pursuing an agriculture related career with foundational knowledge.

PROGRAM COURSE REQUIREMENTS

First Semester (11 Credits)

- ___ AGR 141 Introduction to Animal Science & Technology (4 credits)
- ___ AGR 142 Introduction to Plant Science & Technology (3 credits)
- ___ AGR 143 Introduction to Agribusiness & Financial Management (3 credits)
- ___ SDV 100 College Success Skills (1 credit)

Second Semester (9 Credits)

- ___ AGR 144 Agriculture Human Resources Management (3 credits)
- ___ AGR Agribusiness Elective* (3 credits)
- ___ AGR Agribusiness Elective* (3 credits)

Program Notes:

*Agribusiness Electives are to be chosen from the following: AGR 205, AGR 231, AGR 232, AGR 233, AGR 241, AGR 242, and AGR 244.



BASIC EMT SERVICES

Program Length:	1 semester
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	9
Program Purpose:	NON-TRANSFER
Program Code:	221-146-01

The purpose of this curriculum is to produce competent, entry-level Emergency Medical Technicians who can provide basic life support and care to the sick and injured via the Emergency Medical Services (EMS) infrastructure. Upon successful completion of the program, students will be eligible for National Registry testing and certification in the Commonwealth of Virginia. Employment opportunities for EMTs are available with ambulance services, fire and rescue departments, hospitals, local, state and federal government agencies, and humanitarian relief organizations.

PROGRAM COURSE REQUIREMENTS

First Semester (9 Credits)

___ EMS 112	Emergency Medical Technician I (4 credits)
___ EMS 113	Emergency Medical Technician II (3 credits)
___ EMS 120	Emergency Medical (1 credit)
___ HLT 105	Cardiopulmonary Resuscitation (1 credit)

BASIC IT SKILLS

Program Length:	1 semester
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	9
Program Purpose:	NON-TRANSFER
Program Code:	221-299-05

Provides the student with entry-level computer skills common to the workplace.

PROGRAM COURSE REQUIREMENTS

First Semester (9 Credits)

___ ITE 115	Introduction to Computer Applications and Concepts (3 credits)
___ ITE 119	Information Literacy (3 credits)
___ ITE 170	Multimedia Software (3 credits)

BOOKKEEPING

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	26
Program Purpose:	NON-TRANSFER
Program Code:	221-212-03

The Career Studies Certificate in Bookkeeping is designed to provide individuals with an educational level that will enable them to obtain employment requiring basic bookkeeping skills.

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

- ___ ACC 211 Principles of Accounting I (4 credits)
- ___ ACC 261 Principles of Taxation I (3 credits)
- ___ ITE 115 Introduction to Computer Applications and Concepts (3 credits)
- ___ ITE 140 Spreadsheet Software (3 credits)

Second Semester (13 Credits)

- ___ ACC 212 Principles of Accounting II (4 credits)
- ___ ACC 215 Computerized Accounting (3 credits)
- ___ AST 205 Business Communications (3 credits)
- ___ ACC 124 Payroll Accounting (3 credits)

CARPENTRY

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	29
Program Purpose:	NON-TRANSFER
Program Code:	221-989-34

This Career Studies Certificate in Carpentry is in response to the non-conventional short-term program of study needs of many adults in our service region for an award which provides for upgrading, re-training, and investigating career possibilities.

PROGRAM COURSE REQUIREMENTS

First Semester (15 Credits)

- ___ BLD 110 Introduction to Construction (3 credits)
- ___ BLD 131 Carpentry & Framing I (5 credits)
- ___ SDV 106 Preparation for Employment (1 credit)
- ___ SAF 127 Industrial Safety (2 credits)
- ___ BLD 147 Principles of Block & Bricklaying I (3 credits)
- ___ ITE 102 Computers & Information Systems (1 credit)

Second Semester (14 Credits)

- ___ BLD 132 Carpentry & Framing II (5 credits)
- ___ BLD 135 Building Construction Carpentry (2 credits)
- ___ BLD 111 Blueprint Reading and the Building Code (3 credits)
- ___ BLD 122 Green Building Practices (1 credit)
- ___ BLD 298 Capstone in Carpentry (3 credits)



COMPUTER REPAIR TECHNICIAN

Program Length:	1 semester
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	9
Program Purpose:	NON-TRANSFER
Program Code:	221-731-24

The Computer Repair Technician has a working knowledge of computer concepts and internet skills as well as hardware and software configurations. The technician will be able to install various peripheral devices as well as basic system hardware components. The technician can work in a variety of industries such as information technology, consulting firms, private sector and public sectors such as schools, universities and be self-employed.

PROGRAM COURSE REQUIREMENTS

First Semester (9 Credits)

___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)
___ ITN 106	Microcomputer Operating Systems (3 credits)
___ INT 107	Personal Computer Hardware & Software (3 credits)

COMPUTED TOMOGRAPHY

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	14
Program Purpose:	NON-TRANSFER
Program Code:	221-172-10

Designed to prepare selected students to qualify as contributing members of the allied health interdisciplinary team. Upon completion of the curriculum (and successful completion and documentation of all required clinical competencies as set for by the American Registry of Radiologic Technologists), the student is eligible to apply to take the National Registry examination, leading to advanced certification as a Registered Radiographer in CT by the ARRT.

PROGRAM COURSE REQUIREMENTS

First Semester (6 Credits)

___ RAD 247	Cross Sectional Anatomy for CT/MR (3 credits)
___ RAD 242	CT Procedures and Instrumentation (2 credits)
___ RAD 196*	On Site Training Clinical Internship in CT* (1 credit)

Second Semester (8 Credits)

___ RAD 295	Topics in CT Registry Preparation (3 credits)
___ RAD 196*	On Site Training in Clinical Internship in CT* (2 credits)
___ RAD 195	Topics in Pharmacology for Technologists (1 credit)
___ HLT 145	Ethics for Healthcare Personnel (2 credits)

Program Notes:

*Students who can provide documentation of continuous employment in CT for a minimum of 1 year prior to the application deadline have the option of NOT completing the RAD 196 clinical class requirements.

CRIME SCENE TECHNOLOGY

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	27
Program Purpose:	NON-TRANSFER
Program Code:	221-400-49

Designed to provide students with the knowledge and skills to become crime scene technicians. The focus of the program will include courses in communication, forensic science, and evidence collection and processing. This curriculum is applicable to both the preparatory student and the experienced officer.

PROGRAM COURSE REQUIREMENTS

First Semester (14 Credits)

___ ENG 101	Practical Writing I (3 credits)
___ ADJ 134	Collection and Preservation of Physical Evidence (3 credits)
___ ADJ 171	Forensic Science I (4 credits)
___ SDV 100	College Success Skills (1 credit)
___ ADJ 173	Forensic Photography I (3 credits)

Second Semester (13 Credits)

___ ADJ 168	Computer Applications in Administration of Justice (3 credits)
___ ADJ 172	Forensic Science II (4 credits)
___ ADJ 174	Forensic Photography II (3 credits)
___ ADJ 270	Introduction to Trace Evidence (3 credits)

CUSTOMER CARE REPRESENTATIVE

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	29
Program Purpose:	NON-TRANSFER
Program Code:	221-212-78

Provides the student with fundamental computer and customer services skills common to the workplace. Student can select electives to fit their specific employment criteria.

PROGRAM COURSE REQUIREMENTS

First Semester (14 Credits)

___ MKT 100	Principles of Marketing (3 credits)
___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)
___ MKT 170	Customer Service (2 credits)
___ MKT 260	Customer Service Management (3 credits)
___ ELECTIVE	Elective (3 credits)

Second Semester (15 Credits)

___ ELECTIVE	Elective* (12 credits)
___ AST 205	Business Communications (3 credits)

Program Notes:

* Division Approval



CYBERSECURITY

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	29
Program Purpose:	NON-TRANSFER
Program Code:	221-732-15

This program provides students with knowledge and training so they can implement defense, recognize unauthorized access and take action to minimize threats to their network and computing environment. Our program is designed to provide students with technical and problem solving expertise needed to actively protect assets connected to a network. Admission Requirements: Students must meet the general admission requirements established by the College.

PROGRAM COURSE REQUIREMENTS

First Semester (14 Credits)

___ ITE 105	Careers and Cyber Ethics (2 credits)
___ BUS 106	Security Awareness for Managers (3 credits)
___ ITN 106	Microcomputer Operating Systems (3 credits)
___ ITN 107	Personal Computer Hardware and Troubleshooting (3 credits)
___ ITN 101	Introduction to Network Concepts (3 credits)

Second Semester (15 Credits)

___ ITN	ITN 111 Server Administration OR ITN 170 Linux System Administration (3 credits)
___ ITN 260	Network Security Basics (3 credits)
___ ITN 261	Network Attacks, Computer Crime and Hacking (3 credits)
___ ITN 262	Network Communication, Security and Authentication (3 credits)
___ ITN 266	Network Security Layers (3 credits)

EARLY CHILDHOOD EDUCATION

Program Length:	1 semester
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	16
Program Purpose:	NON-TRANSFER
Program Code:	221-636-04

Designed to meet the qualification requirements of the Office of Head Start for teaching assistants. This statewide certificate is intended to align efforts in early childhood education programs aimed at increasing quality in programs serving young children. The certificate is open to all students including Head Start staff.

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

___ CHD 120	Introduction to Early Childhood Education (3 credits)
___ CHD 145	Teaching Art, Music and Movement to Children (3 credits)
___ CHD 165	Observation and Participation in Early Childhood Settings (3 credits)
___ CHD 205	Guiding the Behaviors of Children (3 credits)
___ SDV 100	College Success Skills (1 credit)
___ HLT 135	Child Health and Nutrition (3 credits)

EARLY CHILDHOOD INFANT AND TODDLER

Program Length:	1 semester
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	16
Program Purpose:	NON-TRANSFER
Program Code:	221-636-05

Designed to meet the qualification requirements of the Office of Head Start assistants in Early Head Start. This statewide certificate is intended to align efforts in early childhood education programs aimed at increasing quality in programs serving young children. The certificate is open to all students including Head Start Staff.

PROGRAM COURSE REQUIREMENTS

First Semester (16 Credits)

___ SDV 100	College Success Skills (1 credit)
___ CHD 120	Introduction to Early Childhood Education (3 credits)
___ CHD 164	Working with Infants and Toddlers in an Inclusive Setting (3 credits)
___ CHD 165	Observation and Participation in Early Childhood Setting (3 credits)
___ CHD 166	Infant and Toddler Program (3 credits)
___ HLT 135	Child Health and Nutrition (3 credits)

ELECTRICAL INSTALLATION

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	29
Program Purpose:	NON-TRANSFER
Program Code:	221-941-02

The Career Studies Certificate in Electricity is in response to the non-conventional short-term program of study needs of many adults in our service region for an award which provides for upgrading, re-training, and investigating career possibilities. This program in Electricity is designed to prepare the student for full-time employment as an entry trade electrician, immediately upon completion of the program. A student who completes the program is capable of performing the job skills normally expected of entry level electricians, working with a licensed electrician.

PROGRAM COURSE REQUIREMENTS

First Semester (14 Credits)

___ BLD 110	Introduction to Construction (3 credits)
___ SAF 127	Industrial Safety (2 credits)
___ ELE 140	Basic Electricity & Machinery (4 credits)
___ SDV 106	Preparation for Employment (1 credit)
___ ELE 136	National Electric Code – Commercial (3 credits)
___ ITE 102	Computer and Information Systems (1 credit)

Second Semester (15 Credits)

___ ELE	ELE 156 Electrical Control Systems (3 credits) OR ELE 245 Industrial Wiring (3 credits)
___ BLD 111	Blueprint Reading and the Building Code (3 credits)
___ ELE 135	National Electric Code - Residential (4 credits)
___ BLD 122	Green Building Practices (1 credit)
___ ELE 177	Photovoltaic Energy Systems (4 credits)



ELECTRONIC MEDICAL RECORDS SPECIALIST

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	27
Program Purpose:	NON-TRANSFER
Program Code:	221-285-74

An essential component involved in the successful transition from paper to digital medical records that healthcare providers are now experiencing is a staff member with knowledge of computer technology specifically related to the management and processing of health information with an emphasis on the electronic health record. The Electronic Medical Records Career Studies Certificate will develop skills needed for healthcare-specific topics such as medical record content and format; standard techniques for filing, maintenance, and acquisition of health information; processes of collecting, computing, analyzing, interpreting, and presenting data related to health care services; and the role that accrediting and licensing bodies play in the delivery of health care.

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

___ HIM 100	Introduction to Healthcare Delivery Systems (1 credit)
___ HLT 143	Medical Terminology I (3 credits)
___ ITE 115	Introduction to Computer Applications and Concepts (3 credits)
___ HIM 150	Health Records Management (3 credits)
___ ITE 140	Spreadsheet Software (3 credits)

Second Semester (14 Credits)

___ BUS 209	Continuous Quality Improvement (3 credits)
___ HLT 144	Medical Terminology II (3 credits)
___ BUS 106	Security Awareness for Managers (3 credits)
___ HIM 233	Electronic Health Records Management (3 credits)
___ HLT 145	Ethics/Health Care Personnel (2 credits)

EMT - INTERMEDIATE

Program Length:	1 year (3 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	27
Program Purpose:	NON-TRANSFER
Program Code:	221-146-03

The purpose of this curriculum is to produce competent entry-level Emergency Medical Technician-Intermediates (EMT I/99) who can service the community with advanced life support care via the Emergency Medical Services (EMS) infrastructure. Upon completion of the program, students will be eligible for National Registry testing and certification in the Commonwealth of Virginia. Employment opportunities for EMT-Intermediates are available with ambulance; fire and rescue services; hospitals; local, state and federal government agencies; and humanitarian relief organizations.

PROGRAM COURSE REQUIREMENTS

First Semester (8 Credits)

- ___ EMS 111 Emergency Medical Technician-Basic (7 credits)
- ___ EMS 120 EMT-Basic Clinical (1 credit)

Second Semester (9 Credits)

- ___ EMS 151 Introduction to Advanced Life Support (4 credits)
- ___ EMS 152 AEMT Completion (2 credits)
- ___ EMS 153 Basic ECG Recognition (2 credits)
- ___ EMS 170 ALS Internship I (1 credit)

Third Semester (10 Credits)

- ___ EMS 154 ALS Cardiac Care (2 credits)
- ___ EMS 157 ALS Trauma Care (3 credits)
- ___ EMS 159 EMS Special Populations (3 credits)
- ___ EMS 172 ALS Clinical Internship II (1 credit)
- ___ EMS 173 ALS Field Internship I (1 credit)



INTERMEDIATE TO PARAMEDIC

Program Length:	1 year (3 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	26
Program Purpose:	NON-TRANSFER
Program Code:	221-146-05

The purpose of this curriculum is to produce competent entry-level Paramedics who can service the community with advanced life support care via the Emergency Medical Services (EMS) infrastructure. Upon completion of the program, students will be eligible for National Registry testing and certification in the Commonwealth of Virginia. Employment opportunities for Paramedics are available with ambulance; fire and rescue services; hospitals; local, state and federal government agencies; and humanitarian relief organizations.

PROGRAM COURSE REQUIREMENTS

First Semester (6 Credits)

- ___ EMS 213 ALS Skills Development (2 credits)
- ___ BIO 145 Human Anatomy & Physiology* (4 credits)

Second Semester (10 Credits)

- ___ EMS 205 Advanced Pathophysiology (4 credits)
- ___ EMS 209 Advanced Pharmacology (4 credits)
- ___ EMS 242 ALS Clinical Internship III (1 credit)
- ___ EMS 243 ALS Internship III (1 credits)

Third Semester (10 Credits)

- ___ EMS 201 EMS Professional Development (3 credits)
- ___ EMS 207 Advanced Patient Assessment (3 credits)
- ___ EMS 211 Operations (2 credits)
- ___ EMS 244 ALS Clinical Internship IV (1 credit)
- ___ EMS 245 ALS Field Internship IV (1 credit)

Program Notes:

*Students should take BIO 141, 142 or BIO 145. It is recommended that students who are planning to transfer to Registered Nursing or Radiography complete BIO 141-142.

ENTREPRENEURSHIP

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	25
Program Purpose:	NON-TRANSFER
Program Code:	221-212-12

The Career Studies Certificate in Entrepreneurship is designed to provide students with the knowledge and skills to start and run a small business. The focus of the program will include communications, accounting, designing a business plan, technology, legal issues and marketing. Small businesses are critical to the foundation of America and provide unlimited opportunities for entrepreneurs.

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

- ___ BUS 116 Entrepreneurship (3 credits)
- ___ AST 117 Keyboarding for Computer Usage (1 credits)
- ___ MKT 160 Marketing for Small Business (3 credits)
- ___ ELECTIVE Elective (3 credits)
- ___ ITE 115 Introduction to Computer Applications and Concepts (3 credits)

Second Semester (12 Credits)

- ___ ACC 220 Accounting for Small Business (3 credits)
- ___ ACC 134 Small Business Taxes (2 credits)
- ___ BUS 160 Legal Aspects of Small Business Operations (1 credit)
- ___ ELECTIVE Elective (3 credits)
- ___ ELECTIVE Elective (3 credits)

FIRE SCIENCE TECHNOLOGY

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	24
Program Purpose:	NON-TRANSFER
Program Code:	221-427-02

Fire Science Technology – With much of the fire service work being done by volunteer fire fighters, there is a need for in-service training as well as initial training for area volunteers. The Fire Science Technology curriculum is designed to meet both needs.

PROGRAM COURSE REQUIREMENTS

First Semester (12 Credits)

- ___ FST 100 Principles of Emergency Services (3 credits)
- ___ FST 110 Fire Behavior and Combustion (3 credits)
- ___ FST 112 Hazardous Material Chemistry I (3 credits)
- ___ FST 115 Fire Prevention (3 credits)

Second Semester (12 Credits)

- ___ FST 120 Occupational Health and Safety (3 credits)
- ___ FST 205 Fire Protection Hydraulics and Water Supply (3 credits)
- ___ FST 220 Building Construction for Fire Protection (3 credit)
- ___ FST 235 Strategy and Tactics (3 credits)



GEOGRAPHIC INFORMATION SYSTEMS

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	25
Program Purpose:	NON-TRANSFER
Program Code:	221-719-71

This Certificate program is designed to prepare students for entry-level positions in technologies using Geographic Information Systems or to expand the knowledge and skills of individuals presently employed in a wide variety of careers in business, computer technologies, environmental, urban and regional planning, government, forestry, land management and many more. This program also provides an excellent foundation for continued study of GIS at the university and four year college level.

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

___ GEO 200	Introduction to Physical Geography (3 credits)
___ ITE 150	Desktop Database Software (3 credits)
___ ITD 132	Structured Query Language (3 credits)
___ GIS 200	Geographical Systems I (4 credits)

Second Semester (12 Credits)

___ GIS 201	Geographical Systems II (4 credits)
___ GIS 205	GIS 3-D Analysis (4 credits)
___ GIS 210	Understanding Geographic Data (4 credits)

GUIDE ESSENTIALS

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	10
Program Purpose:	NON-TRANSFER
Program Code:	221-459-02

The Career Studies Certificate in Guide Essentials prepares students to lead outdoor excursions for a variety of outdoor recreation activities and events. The courses provide the student with the skills he/she needs to be successful working for an outfitter, adventure camp, national, state or local Parks, or other recreational venue. This program is an add-on stackable credential that complements and builds on an individual's previous education and work experience, enhancing their skill set.

PROGRAM COURSE REQUIREMENTS

First Semester (10 Credits)

___ RPK 100	Introduction to Recreation, Parks & Leisure Studies (3 credits)
___ RPK 103	Preparation for Wilderness Adventure (1 credit)
___ RPK 141	Leadership and Supervision (3 credits)
___ RPK 160	Wilderness First Aid (2 credits)
___ RPK 140	Land Use Ethics (1 credit)

HEALTH CARE TECHNICIAN

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	26
Program Purpose:	NON-TRANSFER
Program Code:	221-190-06

Designed to prepare students to work as health care technicians in facilities such as interim care. Upon successful completion students can sit for the state licensure certification.

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

- ___ HCT 101 Health Care Technician I (3 credits)
- ___ HCT 102 Health Care Technician II (3 credits)
- ___ HCT 115 Medication Management (3 credits)
- ___ HCT 190 Coordinated Internship in Medication Management (1 credit)
- ___ HMS 231 Gerontology I (3 credits)

Second Semester (13 Credits)

- ___ HCT 117 Common Causes of Problem Behavior (3 credits)
- ___ HCT 119 Advanced Health Care Technician (4 credits)
- ___ HCT 100 Introduction to Health Career Occupations (3 credits)
- ___ HMS 232 Gerontology II (3 credits)

HEATING, VENTILATION, & AIR CONDITIONING

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	29
Program Purpose:	NON-TRANSFER
Program Code:	221-903-10

Demands for trained, certified personnel to serve a variety of industries and businesses who sell, service, and maintain modern heating, ventilating, and air conditioning equipment are very much in evidence. This program is designed to train individuals in basics of Heating, Ventilation, and Air Conditioning (HVAC) technology. Persons completing this course of study should be able to enter the workforce as an entry level Maintenance Technician.

PROGRAM COURSE REQUIREMENTS

First Semester (14 Credits)

- ___ AIR 121 Air Conditioning & Refrigeration I (4 credits)
- ___ AIR 122 Air Conditioning & Refrigeration II (4 credits)
- ___ AIR 134 Circuits & Controls I (3 credits)
- ___ MTH 103 Applied Technical Mathematics I (3 credits)

Second Semester (15 Credits)

- ___ BLD 110 Introduction to Construction (3 credits)
- ___ ELE 140 Basic Electricity & Machinery (4 credits)
- ___ ELECTIVE Approved Technical Elective* (4 credits)
- ___ ELECTIVE Approved Technical Elective* (4 credits)

Program Notes:

* Approved Technical Electives: ELE135, ELE177, ENE105, AIR136, AIR165, AIR235, AIR154 AIR276 or Division Approval



HORTICULTURE MANAGEMENT

Program Length:	1 year (3 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	29
Program Purpose:	NON-TRANSFER
Program Code:	221-335-01

Designed to prepare students with foundational skills in horticulture with possibility of becoming an entrepreneur in the field.

PROGRAM COURSE REQUIREMENTS

First Semester (9 Credits)

___ HRT 110	Principles of Horticulture (3 credits)
___ HRT 115	Plant Propagation (3 credits)
___ BUS 165	Small Business Management (3 credits)

Second Semester (12 Credits)

___ HRT 227	Professional Landscape Mgmt. (3 credits)
___ HRT 205	Soils (3 credits)
___ BUS 116	Entrepreneurship (3 credits)
___ HRT 121	Greenhouse Crop Production (3 credits)

Third Semester (8 Credits)

___ HRT 207	Plant Pest Management (3 credits)
___ HRT 226	Greenhouse Management (3 credits)
___ HRT 190	Coordinated Internship (2 credits)

INDUSTRIAL MAINTENANCE

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	25
Program Purpose:	NON-TRANSFER
Program Code:	221-990-00

Provides students interested in career in industrial maintenance with the fundamental knowledge of basic skills to be successful. The student can take courses specific to the area of interest.

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

___ ELE 140	Basic Electricity & Machinery (4 credits)
___ MAC 161	Machine Shop Practices I (3 credits)
___ ELE 136	National Electrical Code - Commercial (3 credits)
___ ELECTIVE	Approved Technical Elective* (3 credits)

Second Semester (12 Credits)

___ ITE 115	Introduction to Computer Applications and Concepts (3 credits)
___ ELECTIVE	Approved Technical Elective* (3 credits)
___ ELECTIVE	Approved Technical Elective* (3 credits)
___ ELECTIVE	Approved Technical Elective* (3 credits)

Program Notes:

*Approved Technical Electives: ELE135, ELE177, ELE 211, ELE 233, ELE 245, ELE 234, ELE 156, ETR 113, ETR 143, ETR 144, MAC 162, MAC 163, MAC 164, WEL 117, WEL 123, MEC 161, MAC 121, MAC 122, AIR 134, MIN 131, MIN 132, ETR 114, ETR 143, or Division Approval

INFORMATION TECHNOLOGY

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	24
Program Purpose:	NON-TRANSFER
Program Code:	221-299-08

The Career Studies Certificate in Information Technology is designed to provide students with the knowledge and skills to operate a personal computer. The focus of the program will include general computer usage, keyboarding, Windows, Word, Excel, PowerPoint, email and Internet. The program covers the competencies for the Digital Literacy certification

PROGRAM COURSE REQUIREMENTS

First Semester (12 Credits)

- ___ ITE 101 Introduction to Microcomputer (2 credits)
- ___ ITE 130 Introduction to Internet Services (3 credits)
- ___ ELECTIVE Technical Elective (1 credit)
- ___ ELECTIVE Technical Elective (3 credits)
- ___ ELECTIVE Technical Elective (3 credits)

Second Semester (12 Credits)

- ___ ITE 115 Introduction to Computer Applications and Concepts (3 credits)
- ___ BUS 106 Security Awareness for Managers (3 credits)
- ___ ITE 140 Spreadsheet Software (3 credits)
- ___ ELECTIVE Technical Elective (3 credits)

INSURANCE

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	26
Program Purpose:	NON-TRANSFER
Program Code:	221-212-58

The program is designed for individuals who seek employment in the insurance industry upon completion. The curriculum provides students with the knowledge and skills necessary in the insurance industry to help lessen the risks to businesses and individuals and effectively operate a profitable insurance agency.

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

- ___ ACC 211 Principles of Accounting I (4 credits)
- ___ ISR 130 Principles of Insurance (3 credits)
- ___ ISR 262 Personal Insurance (3 credits)
- ___ ITE ITE 115 Introduction to Computer Applications & Concepts (3 credits)
- OR ITE Elective* (3 credits)

Second Semester (13 Credits)

- ___ ACC 212 Principles of Accounting II (4 credits)
- ___ ISR 266 Life and Health Insurance (3 credits)
- ___ ISR 260 Commercial Insurance (3 credits)
- ___ ISR 270 Insurance Agency Operations & Technology (3 credits)

Program Notes:

*ITE Elective with Division Approval

For additional information, refer to the online version of the SWCC Catalog & Student Handbook at sw.edu/catalog/



MANAGEMENT SPECIALIST

Program Length:	1 semester
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	15
Program Purpose:	NON-TRANSFER
Program Code:	221-212-19

The Career Studies Certificate in Management Specialist is designed to provide students with business management concepts and skills needed to advance to higher levels of management responsibilities. This certificate may be beneficial to those students who want to train or retrain in preparation for a career change or add management job skills to an existing degree.

PROGRAM COURSE REQUIREMENTS

First Semester (15 Credits)

___ BUS 100	Introduction to Business (3 credits)
___ BUS 111	Principles of Supervision (3 credits)
___ BUS 200	Principles of Management (3 credits)
___ ELECTIVE	BUS Elective* (3 credits)
___ ELECTIVE	BUS Elective* (3 credits)

Program Notes:

* Select two courses to satisfy the electives: BUS 116, 165, BUS 201, BUS 204, BUS 205, BUS 209, BUS 265

MANUFACTURING FABRICATION

Program Length:	2 semesters
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	25
Program Purpose:	NON-TRANSFER
Program Code:	221-952-01

Provides the skills, knowledge and some of the experience to fabricate projects through a combination of machining and welding courses.

PROGRAM COURSE REQUIREMENTS

First Semester (12 Credits)

___ MAC 161	Machine Shop Practices I (3 credits)
___ MAC 162	Machine Shop Practices II (3 credits)
___ WEL 150	Welding Drawing and Interpretation (3 credits)
___ WEL 117	Oxyfuel Welding and Cutting (3 credits)

Second Semester (13 Credits)

___ WEL 130	Inert Gas Welding (3 credits)
___ SDV 106	Preparation for Employment (1 credit)
___ WEL 160	Gas Metal Arc Welding (3 credits)
___ MAC 163	Machine Shop Practices III* (3 credits)
___ MAC 164	Machine Shop Practices IV* (3 credits)

Program Notes:

* MAC 121 Computer Numerical Control I and MAC 122 Computer Numerical Control II may be taken in place of MAC 163 Machine Shop Practices III and MAC 164 Machine Shop Practices IV

MECHATRONICS

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	28
Program Purpose:	NON-TRANSFER
Program Code:	221-736-01

The program prepares students for entry-level, industry-driven jobs based on the Siemens Certified Mechatronic Systems Assistant job profile and certification requirements. The curriculum follows a systems approach with students learning about individual components and system characteristics around an actual mechatronic system. The program will help meet the need for mid-skilled workers in engineering technology jobs related to electrical and mechanical engineering principles as applied in an advanced manufacturing firm.

PROGRAM COURSE REQUIREMENTS

First Semester (14 Credits)

- ___ SDV 106 Preparation for Employment (1 credit)
- ___ AST 232 Microcomputer Office Applications (3 credits)
- ___ ETR 113 DC and AC Fundamentals I (3 credits)
- ___ MEC 140 Introduction to Mechatronics (3 credits)
- ___ IND 160 Introduction to Robotics (2 credits)
- ___ SAF 127 Industrial Safety (2 credits)

Second Semester (14 Credits)

- ___ MEC 155 Mechanisms (2 credits)
- ___ MEC 165 Applied Hydraulics, Pneumatics and Hydrostatics (3 Credits)
- ___ MEC 230 Mechatronic Process Control (3 credits)
- ___ IND 243 Principles and Applications of Mechatronics (3 credits)
- ___ ETR 286 Principles and Applications of Robotics (3 credits)



MEDICAL CODING

Program Length:	2 semester
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	24
Program Purpose:	NON-TRANSFER
Program Code:	221-152-02

The health care industry has the need for trained individuals who can provide the necessary skills for medical coding. This course is designed to prepare individuals with the knowledge and skills necessary for employment as a medical coder. This objective is fulfilled through study and application by coding medical records using a variety of nomenclatures and classification systems.

PROGRAM COURSE REQUIREMENTS

First Semester (12 Credits)

___ HLT 143	Medical Terminology I (3 credits)
___ BIO 145	Human Anatomy & Physiology for the Health Sciences* (4 credits)
___ HLT 140	Introduction to Health Related Careers *** (2 credits)
___ ENG	ENG 101 Practical Writing I OR ENG 111 College Composition I (3 credits)

Second Semester (12 Credits)

___ HIT 253	Health Records Coding (4 credits)
___ HLT 144	Medical Terminology II (3 credits)
___ HIT 254	Advanced Coding & Reimburse (3 credits)
___ ITE 102	Computer and Info. Systems** (2 credits)

Program Notes:

* BIO 141-142 may be substituted for BIO 145.

** Students may check with Health Technology faculty for substitution.

*** HCT 100 Introduction to Health Care Occupations may be substituted for HLT 140

NETWORK ADMINISTRATION

Program Length:	1 semester
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	12
Program Purpose:	NON-TRANSFER
Program Code:	221-732-01

The Certificate in Network Administration is designed to provide students with the knowledge to administer local area networks. The student will be exposed to the theory and practice of network administration enabling them to manage enterprise critical resources.

PROGRAM COURSE REQUIREMENTS

First Semester (12 Credits)

___ ITN 113	Active Directory (3 credits)
___ ITN 101	Introduction to Network Concepts (3 credits)
___ ITN 112	Network Infrastructure (3 credits)
___ ITN 111	Server Administration (3 credits)

ORACLE SPECIALIST

Program Length:	1 semester
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	12
Program Purpose:	NON-TRANSFER
Program Code:	221-299-75

A relational database management system Is the core component for an organization's information management system, the most popular of which is Oracle. This program will provide students with the knowledge and experience to work with an Oracle database. The student will be exposed to the theory and practice of basic databases, SQL and PL/SQL, enabling them to manage enterprise critical resources.

PROGRAM COURSE REQUIREMENTS

First Semester (12 Credits)

___ ITD 130	Database Fundamentals (3 credits)
___ ITD 132	Structured Query Language (3 credits)
___ ITD 134	PL/SQL Programming (3 credits)
___ ITD 136	Database Management Software (3 credits)

OUTDOOR INTERPRETATION AND EDUCATION

Program Length:	1 semester
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	9
Program Purpose:	NON-TRANSFER
Program Code:	221-460-15

Prepares students to organize, plan, and conduct outdoor educational activities and events. Skills are develop to protect and preserve natural resources to reduce the impact of activities, to conduct effective outdoor activities and events to provide an explanation of nature and the environment, and to minimize the impact of potential risk. This program is an add-on stackable credential that complements and builds on an individual's previous education and work experience, enhancing their skill set.

PROGRAM COURSE REQUIREMENTS

First Semester (9 Credits)

___ RPK 102	Outdoor Recreation in the Appalachian Ecosystem (2 credits)
___ RPK 125	Resource Interpretation & Education (3 credits)
___ RPK 265	Risk Management (3 credits)
___ RPK 170	Recreational Backpacking* (1 credit)

Program Notes:

* Or Division Approval



OUTDOOR RECREATION

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	29
Program Purpose:	NON-TRANSFER
Program Code:	221-460-35

Outdoor recreation activities are available in most areas, and visiting state and national parks is popular regardless of the state of the economy. State, national and other park services employ many employees in various types and classifications of jobs. At the heart of outdoor recreation activities, an integrated trail system and waterway infrastructure is necessary for adventure tourism and outdoor recreation activities such as hiking, biking, kayaking, canoeing, and ATV riding. This curriculum provides an add-on credential for those interested into getting into the outdoor recreation or parks and recreation industries.

PROGRAM COURSE REQUIREMENTS

First Semester (15 Credits)

___ RPK 100	Introduction to Recreation, Parks & Leisure Studies (3 Credits)
___ RPK 103	Preparation for Wilderness Adventure (1 credit)
___ RPK 141	Leadership & Supervision (3 credits)
___ RPK 140	Land Use Ethics (1 credit)
___ RPK 160	Wilderness First Aid (2 credits)
___ RPK 131	Kayaking* (1 credit)
___ RPK 150	Mountain Biking* (1 credit)
___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)

Second Semester (14 Credits)

___ RPK 102	Outdoor Recreation in the Appalachian Ecosystem (2 credits)
___ MKT 170	Customer Service (2 credits)
___ RPK 265	Risk Management (3 credits)
___ RPK	RPK 190 Coordinated Internship OR RPK 198 Capstone Course (2 credits)
___ RPK 125	Resource Interpretation & Education (3 credits)
___ RPK 170	Recreational Backpacking* (1 credit)
___ RPK 151	Orienteering (1 credit)

Program Notes:

* Or division approval

PARAOPTOMETRIC

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	28
Program Purpose:	NON-TRANSFER
Program Code:	221-160-05

The Career Studies Certificate in Paraoptometric is designed to provide students with the knowledge and skills to carry out a wide variety of front desk procedures in an optometrist office such as scheduling appointments, recalling patients, accepting payments, etc. They may also be trained in the different styles of eyewear, frame repair and adjusting, office materials, purchasing and other duties of a non-technical nature. Students can build on the certificate to earn more advanced certification in the field of Paraoptometric such as assistant, technician, coding and administrative assessment.

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

- ___ HLT 143 Medical Terminology I (3 credits)
- ___ OPT 105 Anatomy, Physiology & Pathology of Eye (3 credit)
- ___ OPT 154 Optical Business Management (3 credits)
- ___ SDV 106 Preparation for Employment (1 credit)
- ___ ITE 115 Introduction to Computer Applications & Concepts (3 credits)

Second Semester (15 Credits)

- ___ ENG 101 Practical Writing I (3 credits)
- ___ HLT 144 Medical Terminology II (3 credits)
- ___ PSY 230 Developmental Psychology (3 credits)
- ___ OPT 195 Topics in Paraoptometric (5 credits)
- ___ OPT 196 On-Site Training in Optometric Offices (1 credit)



PHARMACY TECHNICIAN

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	25
Program Purpose:	NON-TRANSFER
Program Code:	221-190-08

This program is designed to prepare students to assist and support licensed pharmacists in providing health care and medications to patients. Students will obtain a broad knowledge of pharmacy practice and be skilled in the techniques required to order, stock, package, prepare, and dispense medications under the supervision of a licensed pharmacist. Upon completion of the curriculum, students will be eligible to take the National Pharmacy Technician Certification Examination.

PROGRAM COURSE REQUIREMENTS

First Semester (12 Credits)

___	HLT 143	Medical Terminology I (3 credits)
___	HLT 240	Consumer Health Education (3 credit)
___	HLT 261	Basic Pharmacy I (3 credits)
___	AST 232	Microcomputer Office App (3 credits)

Second Semester (13 Credits)

___	HLT 144	Medical Terminology II (3 credits)
___	HLT 190	Coordinated Internship (1 credits)
___	HLT 250	General Pharmacology (3 credits)
___	HLT 290	Coordinated Internship in Pharmacy Technician (4 credits)
___	MTH 126	Mathematics for Allied Health (2 credits)

Program Notes:

*Students are required to have a background check from the Dept. of State Police by the completion of the first semester.

PHLEBOTOMY

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	25
Program Purpose:	NON-TRANSFER
Program Code:	221-151-02

The Career Studies Certificate is designed to prepare graduates who collect and process blood and other samples for medical laboratory analysis. Phlebotomists work in hospitals, medical clinics, and commercial laboratories and in other settings where blood is collected from patients. The curriculum provides learning experiences in the classroom, laboratory, and at approved clinical affiliates.

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

—	SDV 100	College Success Skills (1 credit)
—	MDL 105	Phlebotomy (3 credit)
—	BIO 145	Human Anatomy & Physiology for the Health Sciences* (4 credits)
—	ITE 101	Introduction to Microcomputers (2 credits)
—	HLT 143	Medical Terminology I (3 credits)

Second Semester (12 Credits)

—	MDL 190	Coordinated Internship Prac. In Phlebotomy*** (3 credits)
—	MDL 198	Seminar & Project Phlebotomy (3 credits)
—	ENG 101	Practical Writing I (3 credits)
—	HLT 144	Medical Terminology II (3 credits)

Program Notes:

*Students without a 'C' or better in high school biology will need BIO 20 prior to BIO145.

**Students are required to have a background check from the department of State Police by completion of the first semester. A drug screen is also required.

***Students must complete MDL 190 within one year of taking MDL 105.



PRECISION MACHINING

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	29
Program Purpose:	NON-TRANSFER
Program Code:	221-883-10

Good machinists are in high demand across the nation. It is the machinist who is responsible for forming out of the various metal designs which the engineer sends to them in the form of a blueprint. It requires a great deal of skills to be able to machine very detailed parts by using lathes, milling machines and grinders. The instruction received from the program of study should result in more rapid advancement and reduce new employee training time once employment has been obtained. This program will prepare students to be CNC programmers and/or operators leading to full-time employment.

PROGRAM COURSE REQUIREMENTS

First Semester (14 Credits)

- ___ MTH 103 Applied Technical Mathematics I (3 credits)
- ___ ITE 102 Computers & Information Systems (1 credit)
- ___ SAF 127 Industry Safety (2 credits)
- ___ MAC 161 Machine Shop Practices I (3 credits)
- ___ MAC 162 Machine Shop Practices II (3 credits)
- ___ DRF 161 Blueprint Reading I (2 credits)

Second Semester (15 Credits)

- ___ MAC 163 Machine Shop Practices III (3 credits)
- ___ MAC 164 Machine Shop Practices IV (3 credits)
- ___ MAC 150 Introduction to CAM (2 credits)
- ___ MAC 121 Numerical Control I (3 credits)
- ___ MAC 122 Numerical Control II (3 credits)
- ___ SDV 106 Preparation for Employment (1 credit)

REGISTERED NURSE TO PARAMEDIC BRIDGE

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	11
Program Purpose:	NON-TRANSFER
Program Code:	221-146-07

Designed to address areas of the National Paramedic Curriculum not clearly addressed in RN curricula. Concentration will be placed on advanced airway management, pre-hospital patient assessment, trauma and medical emergency management. Pediatrics, hazardous material incidents, rescue and ambulance operations are also covered. The program will prepare the RN for the National Registry paramedic examination.

PROGRAM COURSE REQUIREMENTS

First Semester (Fall, 6 Credits)

- ___ EMS 193 Studies in RN to Paramedic I (4 credits)
- ___ EMS 290 Coordinated Internship RN to Paramedic Clinical I (2 credit)

Second Semester (Spring, 5 Credits)

- ___ EMS 293 Studies in RN to Paramedic II (3 credits)
- ___ EMS 290 Coordinated Internship RN to Paramedic Clinical II (2 credit)

RENEWABLE ENERGY & ENERGY EFFICIENCY

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	29
Program Purpose:	NON-TRANSFER
Program Code:	221-706-40

The Renewable Energy & Energy Efficiency Career Studies Certificate is designed to prepare students for employment upon graduation as technicians in the energy sector with emphasis on installation of solar, wind, and geothermal power generation systems.

PROGRAM COURSE REQUIREMENTS

First Semester (14 Credits)

- ___ MTH 103 Applied Technical Math I (3 credits)
- ___ ENV 170 Fundamentals of Energy Technology (2 credits)
- ___ ENE 100 Conventional & Alternative Energy Systems (4 credits)
- ___ ENV 193 Studies in "Your Role in the Green Environment" (1 credit)
- ___ ELE 140 Basic Electricity & Machinery (4 credits)

Second Semester (15 Credits)

- ___ ENE 105 Solar Thermal Active & Passive Tech (4 credits)
- ___ ECO 115 Understanding our Environment and Economic Intro. (3 credits)
- ___ ENE 220 Wind Power Generation (4 credits)
- ___ ENE ENE 230 Geothermal Applications **OR**
ELE 177 Photovoltaic Energy Systems (4 credits)

Program Notes:

* ELE 140 or equivalent required pre/co-requisite

SEMI-AUTOMATED WELDING

Program Length:	1 semester
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	12
Program Purpose:	NON-TRANSFER
Program Code:	221-995-50

This program is designed to meet the employment requirements of employers hiring welding to perform the Semi-Automated Welding (MIG) process. The curriculum is designed to prepare students to perform this process and to pass the welding test employers use as a part of their hiring process.

PROGRAM COURSE REQUIREMENTS

First Semester (12 Credits)

- ___ WEL 117 Oxy Fuel Welding and Cutting (3 credits)
- ___ WEL 160 Gas Metal Arc Welding (3 credits)
- ___ WEL 123 Shielded Metal Arc Welding (3 credits)
- ___ WEL 130 Inert Gas Welding (3 credits)



SOFTWARE DEVELOPMENT

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	25
Program Purpose:	NON-TRANSFER
Program Code:	221-299-01

Provides the skills, knowledge, and some of the experience required for employment in computer programming and systems analysis and design.

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

___ ITP 100	Software Design (3 credits)
___ ITD 110	Web Page Design I Basics (3 credits)
___ ITP 112	Visual Basic .NET I (4 credits)
___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)

Second Semester (12 Credits)

___ ITP 120	Java Programming I (3 credits)
___ ITD 132	Structured Query Language (3 credits)
___ ITP 251	Systems Analysis and Design (3 credits)
___ ITP 298	Seminar & Project in Capstone (3 credits)

SOFTWARE QUALITY ASSURANCE

Program Length:	1 year (2 semesters)
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	26
Program Purpose:	NON-TRANSFER
Program Code:	221-299-90

The software quality assurance curriculum prepares students to work in the information technology industry as a software quality assurance technician or software tester. The focus of the program is on identifying problems with the system being tested and providing the appropriate documentation to explain the issues found so that it can be corrected.

PROGRAM COURSE REQUIREMENTS

First Semester (13 Credits)

___ AST 205	Business Communications (3 credits)
___ BUS 121	Business Mathematics I (3 credits)
___ AST 117	Keyboarding for Computer Usage (1 credit)
___ ITE 115	Introduction to Computer Applications & Concepts (3 credits)
___ ITP 100	Software Design (3 credits)

Second Semester (13 Credits)

___ ITE 150	Desktop Database Software (3 credits)
___ ITP 112	Visual Basic .NET I (4 credits)
___ BUS 209	Continuous Quality Improvement (3 credits)
___ SDV 100	College Success Skills (1 credit)
___ ITE 298	Seminar & Project In Capstone (2 credits)

TRADITIONAL MUSIC

Program Length:	2 semesters
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	24
Program Purpose:	NON-TRANSFER
Program Code:	221-641-70

Designed to teach students to play a variety of traditional bluegrass instruments.

PROGRAM COURSE REQUIREMENTS

First Semester (12 Credits)

- ___ MUS 193 Studies in Traditional Music I** 3 (per section) (3-12 credits)

Second Semester (12 Credits)

- ___ MUS 293 Studies in Traditional Music II** 3 (per section) (3-12 credits)

Program Notes:

**Sections of Traditional Music include: Fiddle, Bluegrass Banjo, Clawhammer Banjo, Mandolin, Traditional Guitar, Flatpicking Guitar, Acoustic Bass and Bluegrass String Band.
Courses may be repeated for credit.

WELDING

Program Length:	2 semesters
Academic Awards:	Career Studies Certificate
Special Program Admission Required:	Competency in English and Math Essentials
Total Credit Hours Required:	28
Program Purpose:	NON-TRANSFER
Program Code:	221-995-01

With industries in Virginia using more and varied types of welding, there is a need for training personnel to meet their requirements. The welding curriculum is designed to train persons for full-time employment upon completion of the program.

PROGRAM COURSE REQUIREMENTS

First Semester (15 Credits)

- ___ WEL 117 Oxyfuel Welding and Cutting (3 credits)
- ___ WEL 123 Shielded Metal Arc Welding (Basic) (3 credits)
- ___ WEL 130 Inert Gas Welding (3 credits)
- ___ WEL 160 Gas Metal Arc Welding (3 credits)
- ___ ITE 102 Computers & Information Systems (1 credit)
- ___ SAF 127 Industrial Safety (2 credits)

Second Semester (13 Credits)

- ___ SDV 106 Preparation for Employment (1 credit)
- ___ WEL 150 Welding Drawing and Interpretation (3 credits)
- ___ WEL 126 Pipe Welding I (3 credits)
- ___ WEL 141 Welder Qualifications Test I (3 credits)
- ___ WEL 129 Piping and Fabrication (3 credits)

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SOUTHWEST VIRGINIA COMMUNITY COLLEGE



CAMPUS BUILDINGS

1. Athletic Fields
2. Buchanan Hall
3. Campus Police
4. Davis Hall
5. Dellinger Hall
6. Dickenson Hall
7. Community Center
8. Physical Plant
9. Russell Hall
10. Tazewell Hall

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Ⓟ Parking



EQUAL OPPORTUNITY/AFFIRMATIVE ACTION STATEMENT

Southwest Virginia Community College does not discriminate against employees, students, or applicants on the basis of age, color, disability, gender, gender identity, gender expression, national origin, political affiliation, race, religion, sexual orientation, genetic information, or veteran status; or otherwise discriminate against employees or applicants who inquire about, discuss, or disclose their compensation or the compensation of other employees, or applicants; or any other basis protected by law.

The college is subject to Titles VI and VII of the Civil Rights Act of 1964; Title IX of the Education Amendments of 1972; Sections 503 and 504 of the Rehabilitation Act of 1973; the Americans with Disabilities Act of 1990, as amended; the Age Discrimination in Employment Act; the Equal Pay Act; the Vietnam Era Veterans' Readjustment Assistance Act of 1974; Federal Executive Order 11246; Genetic Information Nondiscrimination Act of 2008 (GINA); Virginia's State Executive Order Number Two; and all other applicable rules and regulations.

Information about campus, workplace violence prevention, and Title IX (<http://sw.edu/title-ix/>) is available online.

Individuals with questions or concerns about any of these regulations or related issues should contact:

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