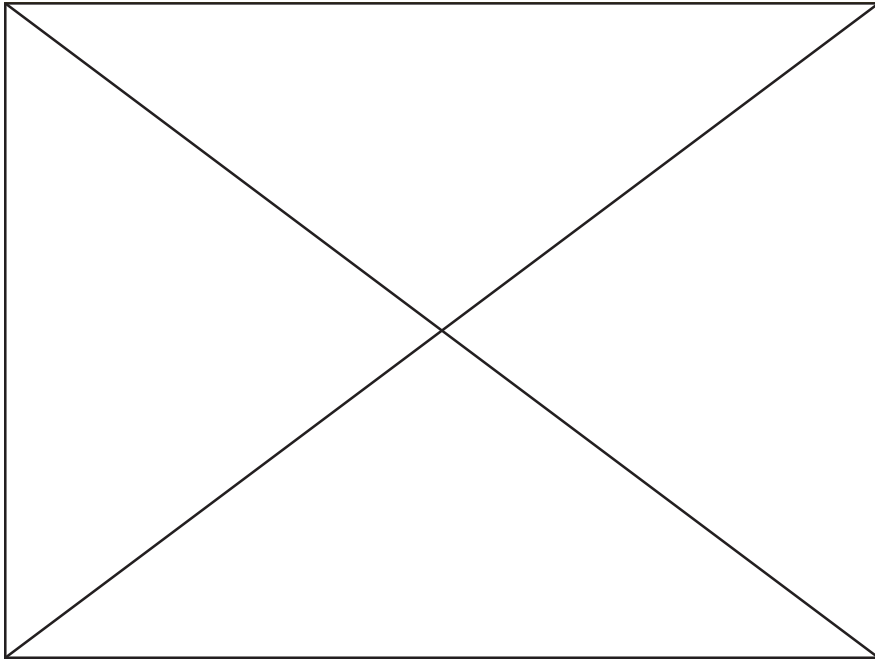




Curriculum Information





Curriculum Information Index

Associate in Arts & Associate in Science Course Categories	75
<i>Arts and Sciences (University Transfer):</i>	
Associate in Arts Degree	76
Associate in Science Degree	77
General College Studies Certificate	78
<i>General Business, Computer Technology and Public Service:</i>	
<i>Business:</i>	
Associate in Applied Science (AAS) in General Business Degree	80
AAS in Administrative Office Technology Degree	82
Administrative Support Diploma	83
Medical Office Clerical Assistant Certificate	85
Small Business Management Certificate	86
Word Processing Certificate	84
<i>Computer Technology:</i>	
AAS in General Business Degree - (elective area) Computer Resource Management	81
Microcomputer Business Applications Certificate	79
<i>Public Service:</i>	
Associate in Applied Science (AAS) in Early Care and Education Degree	87
Early Childhood Development Certificate	88
<i>Nursing:</i>	
Practical Nursing Diploma	89
Prenursing Certificate	90
<i>Industrial-Vocational Technology:</i>	
Associate in Applied Science (AAS) in General Technology Degree	92
AAS in General Technology Primary Technical Specialties:	
Heating/Ventilation/Air Conditioning/Refrigeration Technology	93
Machine Tool Technology	94
Welding	95
Cosmetology Diploma	96
Automotive Repair Certificate	97
Basic Automotive Repair Technology Certificate	98
Construction Trades Certificate	99
Drafting and Design Technology Certificate	100
Heating/Ventilation/Air Conditioning/Refrigeration Technology Certificate	101
Machine Tool Technology Certificate	102
Basic Machine Tool Technology Certificate	103
Welding Certificate	104
Basic Welding Technology Certificate	105

Degree: Typically an associate degree requires 60-80 credit hours and two years for completion. Some programs are designed for university transfer, and some are designed for immediate employment in the field. See your advisor for details.

Diploma: Often 40-60 credit hours are required, and programs can generally be completed in one to two years. All are a focused program of study with many leading to eligibility for special licenses or certifications which are required in certain fields.

Certificate: Highly focused academic preparation typically designed for immediate employment. Programs typically consist of 12-39 credit hours and are completed in less than a year.

Course Categories (AA and AS Degrees)

Course #	Course Title	Credit Hrs.	Course #	Course Title	Credit Hrs.
Category I: Literature			Category IV: Humanities/Social Sciences		
ENG 201	American Literature I	3	ANT 101	General Anthropology	3
ENG 202	American Literature II	3	ART 101	Art History and Appreciation	3
ENG 203	American Literature Survey	3	ART 111*	Basic Drawing	3
ENG 205	English Literature I	3	ECO 210	Macroeconomics	3
ENG 206	English Literature II	3	ECO 211	Microeconomics	3
ENG 208	World Literature I	3	GEO 102	World Geography	4
ENG 209	World Literature II	3	MUS 105	Music Appreciation	3
Category II: History			PSC 201	American Government	3
HIS 101	Western Civilization I	3	PSC 215	State and Local Government	3
HIS 102	Western Civilization II	3	PSY 203	Human Growth and Development	3
HIS 104*	World History I	3	PSY 204*	Child Psychology	3
HIS 105*	World History II	3	REL 101*	Introduction to Religion	3
HIS 115*	African-American History	3	SOC 101	Introduction to Sociology	3
HIS 201	American History: Discovery to 1877	3	SOC 102	Marriage and the Family	3
HIS 202	American History: 1877 to Present	3	SOC 205	Social Problems	3
Category III-A: Mathematics/Lab Sciences			SOC 210	Juvenile Delinquency	3
BIO 101	Biological Science I	4	SOC 215	Ethnic and Minority Issues	3
BIO 102	Biological Science II	4	SOC 230*	Intro to Gerontology	3
BIO 210	Anatomy and Physiology I	4	SPA 201	Intermediate Spanish	3
BIO 211	Anatomy and Physiology II	4	THE 101	Introduction to Theatre	3
BIO 225	Microbiology	4	Category V: Additional Courses		
CHM 110	College Chemistry I	4	Courses chosen with guidance from advisor.		
CHM 111	College Chemistry II	4	<i>* These courses are not on the state transfer list; they satisfy the degree requirements but may not transfer. Students should check with the transfer institution to determine if transfer credit will be assigned. Also see Appendix A for course transferability information.</i> <i>Student intending to transfer should select courses from Appendix B on page 147-148.</i>		
MAT 111	College Trigonometry	3			
MAT 120	Probability & Statistics	3			
MAT 130	Elementary Calculus	3			
MAT 140	Analytical Geometry and Calculus I	4			
MAT 141	Analytical Geometry and Calculus II	4			
PHY 201	Physics I	4			
PHY 202	Physics II	4			
Category III-B: Computer Science					
CPT 172*	Microcomputer Database	3			
CPT 174*	Microcomputer Spreadsheet	3			
CPT 242*	Database	3			
CPT 264*	Systems and Procedures	3			
CPT 265*	Advanced Systems and Procedures	3			
CPT xxx*	Any other Computer Technology course				
IST xxx*	Any Information Technology courses				



Arts and Sciences

Associate in Arts

Award: Associate in Arts

Advisors: Ms. Margaret Chandler and Ms. Louise Brown

Semester hours required for graduation: 64

The associate in arts degree is designed for the student planning to transfer to a four-year program and for the student who wishes to broaden his/her general knowledge. The degree stresses communications, social sciences and humanities.

A. General Education: 21 Credit Hours

COL-103	College Skills	3
CPT-101	Intro to Computers	3
ENG-101	English Composition I	3
MAT-110	College Algebra	3
PSY-201	General Psychology	3
SPC-205	Public Speaking	3
Fine Arts: Choose one below:		3
ART-101 Art History & Appreciation		
or		
MUS-105 Music Appreciation		

B. Additional Required General Education: 16 Credit Hours

ENG-102	English Composition II	3
Lab Science	Choose from Cat III	4
ENG-2XX (Lit)	Choose from Cat I	3
HIS-XXX (Hist.)	Choose from Cat II	3
CPT-170	Microcomputer Applications	3

C. Major Courses: 15 Credit Hours (Choose from Cat I, II or IV)

D. Electives: 12 Credit Hours (Choose from Cat I, II, III, IV and V)

(It is recommended that students work closely with their advisor to determine courses taken in this area. Consideration should be given to student program plan and all courses must be with advisor approval.)

Associate in Arts

Recommended Course Sequence*

(credit hours for electives in parentheses)

Fall Semester I

COL 103
CPT 101
ENG 101
MAT 110
PSY 201

Spring Semester I

CPT 170
ENG 102
Fine Arts Elective (3)
SPC 205
Major course elective (3)

Summer Semester I

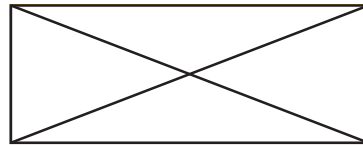
Elective (3)
Lab Science (4)

Fall Semester II

Elective (3)
ENG Cat I elective (3)
HIS Cat II elective (3)
Major course elective (3)
Major course elective (3)

Spring Semester II

Elective (3)
Elective (3)
Major course elective (3)
Major course elective (3)



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.

Associate in Science**Award: Associate in Science**

Advisors: Mr. Tim Triana and
Mr. Willie Bryant

Semester hours required for graduation: 64

The associate in science degree is designed for the student planning to transfer to a four-year program and for the student who wishes to broaden his general knowledge. The degree stresses mathematics and natural and physical sciences.

A. General Education: 21 Credit Hours

COL 103	College Skills	3
CPT 101	Intro to Computers	3
ENG 101	English Composition I	3
MAT 110	College Algebra	3
PSY 201	General Psychology	3
SPC 205	Public Speaking	3
Fine Arts: Choose one below:		3
ART 101	Art History & Appreciation	
	or	
MUS 105	Music Appreciation	

B. Additional Required General Education: 19 Credit Hours

ENG 102	English Composition II	3
Lab Science	Choose from Cat III	4
ENG 2XX	(Lit) Choose from Cat I	3
HIS XXX	(Hist.) Choose from Cat II	3
CPT 170	Microcomputer Applications	3
MAT 111	(or) MAT-120 (or) MAT-130	3

C. Major Courses: 15 Credit Hours
(Choose from Cat III-A)**D. Electives: 9 Credit Hours**
(Choose from Cat I, II, III, IV and V)

(It is recommended that students work closely with their advisor to determine courses taken in this area. Consideration should be given to student program plan and all courses must be with advisor approval.)

Associate in Science**Recommended Course Sequence***

(credit hours for electives in parentheses)

Fall Semester I

COL 103
CPT 101
ENG 101
Lab Science (4)
MAT 110

Spring Semester I

ENG 102
HIS Cat II (3)
Major course elective (3 or 4)
MAT 111, 120 or 130
SPC 205

SUMMER Semester I

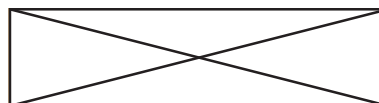
Fine Arts Elective (3)
Major Course Elective (3 or 4)

Fall Semester II

ENG elective Cat I (3)
Major Course Elective (3 or 4)
Major Course Elective (3 or 4)
Major Course Elective (3 or 4)

Spring Semester II

CPT 170
Elective (3)
Elective (3)
Elective (3)
PSY 201



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



General College Studies Award: Certificate in General College Studies

Advisor: Ms. Margaret Chandler
Semester hours required for graduation: 39

This program is designed to prepare students for transfer to either a four-year institution's B.A. or B.S. program or to prepare undecided students for any of Williamsburg Technical College's associate degree programs. The purpose of the program is to be flexible enough to assist students in the completion of most of the general education core requirements for either the associate or bachelor's degree.

A. Major Courses: 21 Credit Hours

COL 103	College Skills	3
CPT 101	Intro to Computers	3
ENG 101	English Composition I	3
MAT 110	College Algebra	3
PSY 201	General Psychology	3
SPC 205	Public Speaking	3
Fine Arts: Choose one below:		3
ART 101	Art History & Appreciation	
	or	
MUS 105	Music Appreciation	

B. Electives: 18 Credit Hours

(It is recommended that students work closely with their advisor to determine courses taken in this area. Consideration should be given to student program and all courses must be with advisor approval.)

General College Studies

Recommended Course Sequence*
(credit hours for electives in parentheses)

Fall Semester I

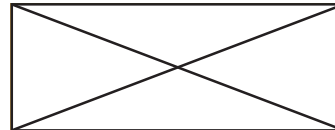
COL 103
CPT 101
ENG 101
MAT 110
PSY 201

Spring Semester I

Electives (9)
Fine Arts Elective (3)
SPC 205

Summer Semester

Electives (9)



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Microcomputer Business Applications

Award: Certificate in Microcomputer Business Applications

Advisor: Ms. Becky McIntosh

Semester hours required for graduation: 39

The microcomputer business applications certificate program prepares the student for employment as a microcomputer business applications specialist. It is designed primarily for the student who is seeking employment or who is currently employed by a business that uses or wants to use microcomputer word processing, spreadsheet and database software packages. This program of study prepares the student in basic business concepts as utilized in a wide variety of commercial software programs.

A. General Education: 12 Credit Hours

COL 103	College Skills	3
CPT 101	Intro to Computers	3
ENG 101	English Composition I	3
MAT 102	Intermediate Algebra	3

B. Major Courses: 21 Credit Hours

ACC 101	Principles of Accounting I	3
ACC 240	Computerized Accounting	3
CPT 170	Microcomputer Applications	3
CPT 172	Microcomputer Data Base	3
CPT 174	Microcomputer Spreadsheet	3
CPT 264	Systems & Procedures	3
IST 225	Internet Communications	3

C. Business Electives: 6 Credit Hours:**

ACC 102	Principles of Accounting II	3
BAF 101	Personal Finance	3
BUS 101	Introduction to Business	3
BUS 220	Business Ethics	3
ECO 210	Macroeconomics	3
ECO 211	Microeconomics	3
MGT 120	Small Business Mgmt.	3

** Required

Microcomputer Business Applications

Recommended Course Sequence*

Fall Semester

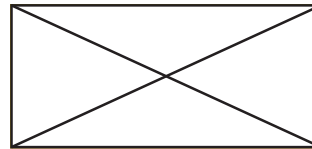
ACC 101
COL 103
CPT 101
MAT 102

Spring Semester

ACC 240
Business Elective (3)
CPT 170
ENG 101
IST 225

Summer Semester

Business Elective (3)
CPT 172
CPT 174
CPT 264



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



General Business, Computer Technology and Public Service

**Associate in Applied Science
Major in General Business**

Advisor: Ms. Becky McIntosh
Semester hours required for graduation: 63

Success in the business world requires knowledge in various fields of business and in changing technologies. To meet these needs, the general business curriculum requires courses in general education as well as humanities, economics and accounting. Job opportunities include marketing, finance, accounting, personnel, banking, and related fields.

A. General Education: 21 Credit Hours

COL 103 College Skills	3
CPT 101 Intro to Computers	3
ENG 101 English Composition I	3
MAT 102 Intermediate Algebra	3
PSY 201 General Psychology	3
SPC 205 Public Speaking	3
Fine Arts: Choose one below:	3
ART-101 Art History & Appreciation	
or	
MUS-105 Music Appreciation	

B. Major Courses: 33 Credit Hours

ACC 101 Principles of Accounting I	3
ACC 102 Principles of Accounting II	3
BUS 101 Introduction to Business	3
BUS 121 Business Law I	3
BUS 140 Business Mathematics	3
CPT 170 Microcomputer Applications	3
ECO 210 Macroeconomics	3
ECO 211 Microeconomics	3
MGT 101 Principles of Management	3
MGT 201 Human Resource Mgmt.	3
MKT 101 Marketing	3

C. Business Electives: 9 Credit Hours

Select from:

ACC 240 Computerized Accounting	3
AOT 133 Professional Development	3
AOT 134 Office Communications	3
AOT 143 Office Sys. & Procedures	3
BAF 101 Personal Finance	3
BAF 201 Principles of Finance	3
BUS 240 Business Statistics	3
CPT 111 BASIC Programming	3
CPT 172 Microcomputer Data Base	3
CPT 174 Microcomputer Sprshts	3

CPT 176 Microcomputer Oper. Sys.	3
MGT 120 Small Business Mgmt.	3
PSC 215 State & Local Government	3

D. Other Electives: 3 Credit Hours

Courses chosen with advisor approval.

General Business

Recommended Course Sequence*
(credit hours for electives in parentheses)

Fall Semester I

BUS 101
COL 103
CPT 101
ECO 210
ENG 101

Spring Semester I

ACC 101
BUS 140
CPT 170
MGT 101
SPC 205

Summer Semester I

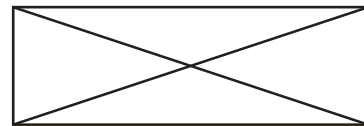
Business elective (3)
Fine Arts elective (3)

Fall Semester II

ACC 102
ECO 211
MAT 102
MKT 101
PSY 201

Spring Semester II

BUS 121
Business electives (6)
MGT 201
Other elective (3)



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



General Business, Computer Technology and Public Service

**Associate in
Applied Science
Major in General Business
Elective area: Computer
Resource Management**

Advisor: Ms. Becky McIntosh
Semester hours required for graduation: 69

The associate in general business degree with a major in computer resource management is designed to meet the need of students for general business knowledge with an emphasis on managing computer resources. Upon completion of this degree, a student will be prepared for an entry-level position in a management information system department.

A. General Education: 21 Credit Hours

COL 103	College Skills	3
CPT101	Intro to Computers	3
ENG 101	English Composition I	3
MAT 102	Intermediate Algebra	3
PSY201	General Psychology	3
SPC 205	Public Speaking	3
Fine Arts	Choose one	3
ART 101	Art History & Appreciation	
or		
MUS 105	Music Appreciation	

B. Major Courses: 45 Credit Hours

ACC 101	Principles of Accounting I	3
ACC 240	Computerized Accounting	3
BUS 121	Business Law	3
CPT 170	Microcomputer Applications	3
CPT 172	Microcomputer Database	3
CPT 174	Microcomputer Sprshts.	3
CPT 210	Computer Resources Mgmt.	3
CPT 242	Database	3
CPT 264	Systems & Procedures	3
CPT 265	Advanced Sys.& Procedures	3
CPT 270	Adv. Microcomputer App.	3
ENG 160	Technical Communications	3
IST 225	Internet Communications	3
MGT 101	Principles of Management	3
MKT 101	Marketing	3

C. Business Elective Area: 3 Credit hours (choose one)

ACC 102	Principles of Accounting II	3
BAF 101	Personal Finance	3
BUS 101	Introduction to Business	3

ECO 210	Macroeconomics	3
ECO 211	Microeconomics	3
MGT 120	Small Business Mgmt.	3
MGT 201	Human Resource Mgmt.	3

**Computer Resource
Management**

Recommended Course Sequence*

Fall Semester I

COL 103
CPT 101
ENG 101
MAT 102
Fine Arts elective (3)

Spring Semester I

CPT 170
IST 225
MGT 101
PSY 201
SPC 205

Summer Semester

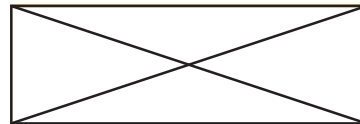
CPT 264
ENG 160
MKT 101

Fall Semester II

ACC 101
BUS 121
CPT 172
CPT 174
CPT 265

Spring Semester II

ACC 240
CPT 242
CPT 270
CPT 210
Business elective (3)



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



**Associate in
Applied Science
Major in Administrative Office
Technology**

Advisor: Ms. Alecia Lawrence
Semester hours required for graduation: 63

The administrative office technology curriculum is designed to provide the graduate with the skills necessary to perform the operations needed in an office environment. These skills are enhanced by general education courses which develop communication, math and human relations skills. Graduates are prepared for employment in an office environment in positions ranging from entry-level clerk, receptionist and secretary to word processing specialist.

A. General Education: 21 Credit Hours

COL 103	College Skills	3
CPT 101	Introduction to Computers	3
ENG 101	English Composition I	3
MAT 101	Beginning Algebra	3
PSY 201	General Psychology	3
SPC 205	Public Speaking	3
Fine Arts	Choose one	3
	ART 101 Art History & Appreciation or	
	MUS 105 Music Appreciation	

B. Major Courses: 36 Credit Hours

ACC 101	Accounting Principles I	3
AOT 105	Keyboarding	3
AOT 110	Document Formatting	3
AOT 120	Intro. to Machine Trans.	3
AOT 133	Professional Development	3
AOT 134	Office Communications	3
AOT 141	Office Procedures I	3
AOT 143	Office Sys. and Procedures	3
AOT 167	Information Processing App.	3
ACC 102	Accounting Principles II	3
BUS 140	Business Mathematics	3
CPT 170	Microcomp Applications	3

C. Electives: 6 Credit Hours

Select from:

ACC 240	Computerized Accounting	3
CPT 172	Microcomp Data Base	3
CPT 174	Microcomp Spreadsheets	3
ECO 210	Macroeconomics	3
PSC 215	State & Local Government.	3

**Administrative Office
Technology**

Recommended Course Sequence*

Fall Semester I

- AOT 105
- AOT 133
- AOT 141
- AOT 134
- BUS 140
- COL 103

Spring Semester I

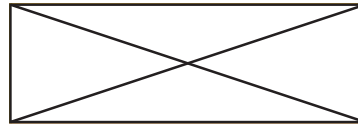
- AOT 110
- AOT 143
- CPT 101
- ENG 101
- MAT 101

Fall Semester II

- AOT 120
- ACC 101
- CPT 170
- SPC 205
- Elective (3)

Spring Semester II

- AOT 167
- ACC 102
- PSY 201
- Elective (3)
- Fine arts elective (3)



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



General Business, Computer Technology and Public Service

Administrative Support
Award: Diploma in
Administrative Support

Advisor: Ms. Alecia Lawrence
Semester hours required for graduation: 45

The administrative support curriculum is designed to provide the graduate with the skills necessary to secure an entry-level position in an office environment.

A. General Education: 15 Credit hours

AOT 134	Office Communications	3
BUS 140	Business Mathematics	3
COL 103	College Skills	3
CPT 101	Introduction to Computers	3
SPC 205	Public Speaking	3

B. Major Courses: 24 Credit Hours

AOT 105	Keyboarding	3
AOT 110	Document Formatting	3
AOT 120	Intro. to Machine Trans.	3
AOT 133	Professional Development	3
AOT 141	Office Procedures I	3
AOT 143	Office Sys and Proc	3
ACC 101	Accounting Principles I	3
ACC 102	Accounting Principles II	3

C. Other Required Courses: 6 Credit Hours

Select from:

AOT 167	Information Processing App.	3
CPT 170	Microcomp Applications	3
CPT 172	Microcomp Data Base	3
CPT 174	Microcomp Spreadsheets	3

Administrative Support

Recommended Course Sequence*
(credit hours for electives in parentheses)

Fall Semester

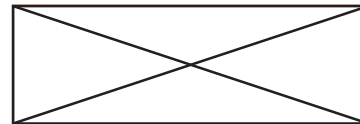
- AOT 133
- AOT 105
- AOT 141
- ACC 101
- COL 103

Spring Semester

- ACC 102
- AOT 143
- AOT 110
- AOT 134
- BUS 140
- Elective (3)

Summer Semester

- AOT 120
- CPT 101
- SPC 205
- Elective (3)



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Word Processing

Award: Certificate in Word Processing

Advisor: Ms. Alecia Lawrence

Semester hours required for graduation: 36

This program will provide basic and advanced instruction in word processing and other office-related subjects. These skills will benefit individuals who wish to upgrade their current skills to seek other career opportunities.

A. General Education: 15 Credit Hours

AOT 134	Office Communications	3
CPT 102	Basic Computer Concepts	3
COL 103	College Skills	3
ENG 155	Communications I	3
IST 225	Internet Communications	3

B. Major Courses: 21 Credit Hours

AOT 105	Keyboarding	3
AOT 110	Document Formatting	3
AOT 120	Intro. to Machine Trans.	3
AOT 133	Professional Development	3
AOT 141	Office Procedures I	3
AOT 143	Office Systems and Proc.	3
AOT 167	Information Processing App.	3

Word Processing

Recommended Course Sequence*

Fall Semester

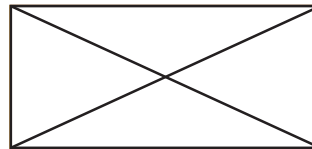
AOT 105
AOT 141
AOT 133
COL 103

Spring Semester

AOT 110
AOT 120
AOT 143
AOT 167
ENG 155

Summer Semester

AOT 134
CPT 102
IST 225



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Medical Office Clerical Assistant

Award: Certificate in Medical Office Clerical Assistant

Advisor: Ms. Alecia Lawrence
Semester hours required for graduation: 39

This program will provide individuals with the necessary skills to obtain employment as clerical assistants in physicians' offices, clinics, public health agencies, hospitals and insurance offices.

A. General Education: 12 Credit Hours

AOT 134	Office Communications	3
BUS 140	Business Mathematics	3
COL 103	College Skills	3
CPT 102	Basic Computer Concepts	3

B. Major Courses: 27 Credit Hours

AOT 105	Keyboarding	3
AOT 110	Document Formatting	3
AOT 115	Medical Office Terminology	3
or		
AHS 102	Medical Terminology	3
AOT 122	Medical Machine Transc.	3
AOT 141	Office Procedures I	3
AOT 143	Office Systems & Proc.	3
AOT 167	Info. Processing App.	3
AOT 252	Medical Sys. & Procedures	3
AHS 138	Medical Coding Basics	3

Medical Office Clerical Assistant

Recommended Course Sequence*

Fall Semester

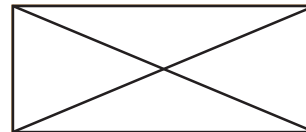
AOT 115
or
AHS 105
AOT 105
AOT 141
COL 103
CPT 102

Spring Semester

AOT 110
AOT 134
AOT 143
AOT 167
BUS 140

Summer Semester

AOT 122
AOT 252
AHS 138



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.

Small Business Management

Certificate: Business

Advisor: Ms. Becky McIntosh

Semester hours required for graduation: 39

This certificate program is designed to provide students with the basic skills needed in connection with the operation of a small business.

General Education: 12 Credit Hours

COL 103	College Skills	3
CPT 101	Intro to Computers	3
ENG 101	English Composition I	3
SPC 205	Public Speaking	3

Major Courses: 27 Credit Hours

ACC 101	Principles of Accounting I	3
BAF 101	Personal Finance	3
BUS 101	Introduction to Business	3
BUS 121	Business Law I	3
BUS 140	Business Math	3
CPT 170	Microcomputer Applications	3
MGT 120	Small Business Mgmt.	3
MGT 201	Human Resource Mgmt.	3
MKT 101	Marketing	3

Small Business Management

Recommended Course Sequence*

Fall Semester I

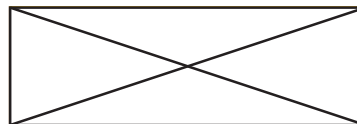
BUS 101
BUS 140
COL 103
CPT 101
MGT 120

Spring Semester I

ACC 101
CPT 170
ENG 101
SPC 205

Summer Semester I

BAF 101
BUS 121
MGT 201
MKT 101



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Associate in Applied Science

Major: Early Care and Education

Advisor: Dr. Earlene Walker-Kelly
Semester hours required for graduation: 67

The associate in applied science degree with a major in early care and education is designed to prepare individuals for employment in a variety of educational and child-care programs for children from birth through school age. Graduates are prepared to assume positions in programs such as Head Start, Early Head Start, public schools as paraprofessionals, childcare, after-school care, public or private preschools or kindergartens, or working with children with special needs.

A. General Education: 21 Credit Hours

COL 103	College Skills	3
Computer Tech:	Choose one below:	3
CPT 101	Intro to Computers	
or		
CPT 102	Basic Comp Concepts	
ENG 101	English Composition I	3
Mathematics:	Choose one below:	3
MAT 110	College Algebra	
or		
MAT 155	Contemporary Math	
PSY 201	General Psychology	3
SPC 205	Public Speaking	3
ART 101	Art History & App	3

B. Additional Required General Education: 7 Credit Hours

MUS 105	Music Appreciation	3
SPA 101	Elementary Spanish I	4

C. Required Core Subject Area Courses: 33 Credit Hours

ECD 101	Intro. to Early Childhood	3
ECD 102	Growth and Development I	3
ECD 105	Guidance-Classroom Mgmt.	3
ECD 107	Exceptional Children	3
ECD 131	Language Arts	3
ECD 132	Creative Experiences	3
ECD 133	Science and Math Concepts	3
ECD 135	Health, Safety and Nutrition	3
ECD 203	Growth and Development II	3
ECD 237	Methods and Materials	3
ECD 243	Supervised Field Exp. I	3

D. Electives: 6 Credit Hours

Courses chosen with advisor approval

Early Care and Education

Recommended Course Sequence*

Fall Semester I

COL 103
CPT 101
or
CPT 102
ECD 101
ECD 105
ENG 101

Spring Semester I

ECD 102
ECD 107
ECD 131
ECD 133
SPA 101

Summer Semester I

ECD 237
ECD 135
SPC 205
Elective (3)

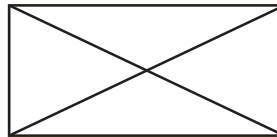
Fall Semester II

ART 101
ECD 132
ECD 203
PSY 201

Spring Semester II

ECD 243
MUS 105
MAT 155
or
MAT 110
Elective (3)

The Williamsburg Technical College Associate in Applied Science degree in Early Care and Education is accredited by the National Association for the Education of Young Children (NAEYC). As an accredited program, several colleges in South Carolina have agreed to accept Early Care and Education coursework into a baccalaureate degree through articulation agreements. Please see your program advisor for details.



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Early Childhood Development

Award: Certificate in Early Childhood Development

Advisor: Dr. Earlene Walker-Kelly

Semester hours required for graduation: 30

The early childhood development curriculum prepares graduates for employment in educational programs for children from birth to age eight. Students will obtain a basic understanding of the developmental needs of young children and will learn how to create a nurturing environment in preschool programs. Job opportunities are available in public and private nursery schools and kindergarten programs.

Major Courses: 30 Credit Hours

COL 103	College Skills	3
ECD 101	Intro. to Early Childhood	3
ECD 102	Growth and Development I	3
ECD 105	Guid.-Classroom Mgmt.	3
ECD 107	Exceptional Children	3
ECD 131	Language Arts	3
ECD 132	Creative Experiences	3
ECD 133	Science and Math Concepts	3
ECD 135	Health, Safety and Nutrition	3
ECD 203	Growth and Development II	3

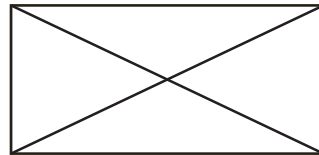
Early Childhood Development Recommended Course Sequence*

Fall Semester

COL 103
ECD 101
ECD 102
ECD 131
ECD 135

Spring Semester

ECD 105
ECD 107
ECD 132
ECD 133
ECD 203



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Nursing

Practical Nursing

Award: Diploma in Health Science, Practical Nursing

Advisors: Ms. Sheila Forester and Ms. Deniel Dickson

*Semester hours required for graduation: 48***

The practical nursing program is 40 weeks in length (three consecutive semesters) and includes 48 credit hours of combined nursing and general education courses. Students receive classroom instruction, laboratory practice, and clinical nursing experience in medical, surgical, obstetric, pediatric, geriatric and community practice settings. Through guided learning experiences, students provide nursing care to patients with basic health needs. Students work as members of the health care team under the supervision of a registered nurse. Upon graduation, students are eligible to apply to take the NCLEX-PN examination.

A. General Education: 17 Credit Hours

ENG 101	English Composition I	3
MAT 101	Beginning Algebra	3
PSY 201	General Psychology	3
BIO 210	Anatomy & Physiology I	4
BIO 211	Anatomy & Physiology II	4

B. Major Courses: 31 Credit Hours

PNR 110	Fundamentals of Nursing	5
PNR 120	Medical/Surgical Nursing I	5
PNR 130	Medical/Surgical Nursing II	5
PNR 140	Medical/Surgical Nursing III	5
PNR 182	Spec. Topics: Pharmacology	2
PNR 155	Maternal/Infant/Child Nurs.	7
PNR 170	Nursing of the Older Adult	2

***All PNR courses require an 80% competency for program progression.*

Practical Nursing

Recommended Course Sequence*

Fall Semester

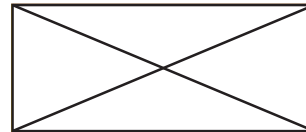
BIO 210
MAT 101
PNR 110
PNR 120

Spring Semester

BIO 211
PNR 130
PNR 140
PNR 182

Summer Semester

ENG 101
PNR 155
PNR 170
PSY 201



** Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.*



Nursing

Prenursing

Award: Certificate in Prenursing

Advisors: Ms. Sheila Forester and Ms. Deniel Dickson
Semester hours required for graduation: 39

This program is designed to prepare students for transfer to complete the associate degree in nursing. The shortage of nurses in our service area prompted the development of this program with the support and cooperation of other colleges in our region.

At present, the associate degree in health science may not be completed at Williamsburg Technical College. However, this program provides basic courses which may be transferred to complete degree requirements.

A. General Education: 21 Credit Hours

COL 103	College Skills	3
CPT 101	Intro to Computers	3
ENG 101	English Composition I	3
ENG 102	English Composition II	3
MAT 101	Beginning Algebra	3
PSY 201	General Psychology	3
SPC 205	Public Speaking	3

B. Major Courses: 15 Credit Hours

AHS 102	Medical Terminology	3
BIO 210	Anatomy and Physiology I	4
BIO 211	Anatomy and Physiology II	4
BIO 225	Microbiology	4

B. Other Courses: 3 Credit Hours

Choose from:

PSY 203	Human Growth and Dev.	3
PSY 204	Child Psychology	3
SOC 230	Intro to Gerontology	3

Prenursing

Recommended Course Sequence*

Fall Semester

BIO 210
COL 103
CPT 101
ENG 101
MAT 101

Spring Semester

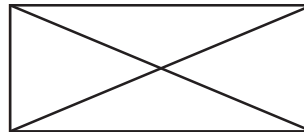
AHS 102
BIO 211
ENG 102
PSY 201
SPC 205

Summer Semester

BIO 225

choose one:

PSY 203
PSY 204
SOC 230



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Industrial - Vocational Technologies

Technical Electives

ACR 225 Industrial Air Conditioning	3	ENG 155 Communications I	3
ACR 240 Adv. Automatic Controls	3	ENG 160 Technical Communications ..	3
EEM 240 Basic Microprocessors	4	HSS 205 Technology and Sociology	3
EEM 261 Electronic Communication ...	3	HUS 230 Interviewing Techniques	3
EEM 271 Sensors and Sys. Intef.	2	IDS 205 Professional Effectiveness ...	3
EEM 272 Process Control	4	IET 210 Industrial Organization	4
EEM 273 Adv. Process Control	3	IET 223 Industrial Safety	3
EEM 274 Tech./Sys. Troubleshooting ..	4	IMG 104 Quality Control Concepts	3
EGT 252 Advanced CAD	3	IST 225 Internet Communications	3
EGT 265 CAD/CAM Applications	3	MGT 150 Fund. of Supervision	3
EGT 270 Manufacturing Integration	4	MAT 155 Contemporary Math	3
		MAT 190 Math for the Workplace	2





Industrial - Vocational Technologies

Associate in Applied Science

Major: General Technology
Award: Associate in Applied Science

Advisor: Determined by primary specialty
Semester hours required for graduation: 64-75

The associate degree program in occupational technology is designed for students seeking a combination of technically-oriented courses to meet specific career objectives and the opportunity to become multi-skilled technicians. In addition to completing the college's general education requirements, students will also complete course work in primary and secondary specialties.

A. General Education: 21 Credit Hours

COL 103	College Skills	3
CPT 102	Basic Computer Concepts	3
ENG 101	English Composition I	3
MAT 101	Beginning Algebra	3
PSY 201	General Psychology	3
SPC 205	Public Speaking	3
Fine Arts: Choose one below:		3
ART 101	Art History & Appreciation	
	or	
MUS 105	Music Appreciation	

B. Technical Specialties: 40 Credit Hours

The degree consists of a primary and a secondary technical specialty.

Primary Technical Specialty:

The primary technical specialty consists of a minimum of 28 semester hours credit in a single content area from approved degree, diploma, or technical education certificate programs.

Secondary Technical Specialty:

A minimum of 12 credit hours in another technical area.

C. Technical Elective: 3 Credit Hours

This course will be approved by the advisor in order to adapt the program to meet the needs of the specific student

and local employers. Provisions must be made for a minimum of one technical elective. See page 96 for a list of approved electives.

Sample primary/secondary combinations are as follows:

Primary Specialty

HVAC/R Technology
Machine Tool
Welding
Automotive Repair

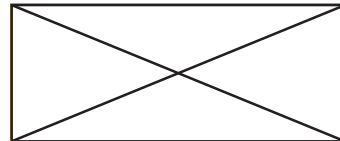
Secondary Specialty

Drafting & Design
Welding
Machine Tool
Welding

General Technology

Recommended Course Sequence*

Some possible technical specialty curriculum guides are included in the following pages. It is recommended that students contact their faculty advisor to lay out an appropriate course plan according to their technical specialty and course availability by semester.



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Industrial - Vocational Technology

Primary Technical Specialty:

**Heating, Ventilation,
Air Conditioning and
Refrigeration
Technology**

**Award: Associate in Applied
Science with a Major in General
Technology**

Advisor: Mr. Willie Morant

Semester hours required for graduation: 66

Few aspects of modern living are untouched by modern refrigeration and air conditioning. Businesses, commercial operations, manufacturing processes, storage and shipping operate under controlled-temperature conditions. New environmental protection agency (EPA) amendments to the clean air act have changed air conditioning and refrigeration so dramatically that HVAC/R services require new equipment, new procedures, new refrigerants and even new attitudes. The HVAC/R technology program addresses all the new EPA regulations and prepares students for the challenges of future change in the industry.

A. General Education: 21 Credit Hours

COL103	College Skills	3
CPT 102	Basic Computer Concepts	3
ENG 101	English Composition I	3
MAT 101	Beginning Algebra	3
PSY201	General Psychology	3
SPC 205	Public Speaking	3
Fine Arts:	Choose one below:	3
ART-101	Art History & Appreciation	
	or	
MUS-105	Music Appreciation	

B. Required Core Subject Areas:

Primary Technical Specialty:

30 Credit Hours

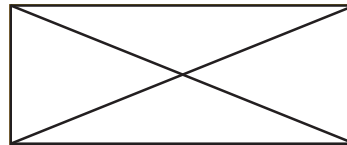
ACR 101	Fund. of Refrigeration	5
ACR 106	Basic Electricity for HVAC/R	4
ACR 107	Wiring Diagrams	2
ACR 110	Heating Fundamentals	4
ACR 120	Basic Air Conditioning	4
ACR 131	Commercial Refrigeration	4
ACR 140	Automatic Controls	3
ACR 210	Heat Pumps	4

Secondary Technical Specialty:

12 Credit Hours (minimum)

Select from Electrical or Drafting and Design Technology curricula.

C. Technical Elective: 3 Credit Hours



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Industrial - Vocational Technologies

Primary Technical Specialty:

**Machine Tool
Technology**

**Award: Associate in Applied
Science with a Major in General
Technology**

Advisor: Mr. Brandon Haselden
Semester hours required for graduation: 64

The machine tool technology graduate is trained to be a highly-skilled apprentice with local industry. The program offers training and education on both manual and computer numeric controlled (CNC) equipment that is used by industry. After completing the program, graduates are primarily operators but have the requisite knowledge and training for further education in CNC programming, utilizing the latest state-of-the-art equipment.

A. General Education: 21 Credit Hours

COL 103	College Skills	3
CPT 102	Basic Computer Concepts	3
ENG 101	English Composition I	3
MAT 101	Beginning Algebra	3
PSY 201	General Psychology	3
SPC 205	Public Speaking	3
Fine Arts:	Choose one below:	3
ART-101	Art History & Appreciation	
	or	
MUS-105	Music Appreciation	

B. Required Core Subject Areas:

Primary Technical Specialty:

28 Credit Hours

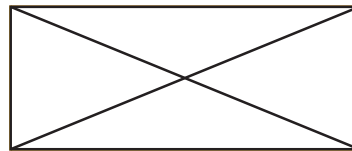
EGT 106	Print Rdg. and Sketching	3
MTT 101	Intro to Machine Tool	2
MTT 121	Machine Tool Theory I	3
MTT 122	Machine Tool Practice I	4
MTT 123	Machine Tool Theory II	3
MTT 124	Machine Tool Practice II	4
MTT 141	Metals and Heat Treatment	3
MTT 253	CNC Program. and Oper.	3
MTT 255	CNC Programming II	3

Secondary Technical Specialty:

12 Credit Hours (minimum)

Select from electrical technology or welding curricula.

C. Technical Elective: 3 Credit Hours



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Industrial - Vocational Technologies

Primary Technical Specialty:

Welding

Award: Associate in Applied Science with a Major in General Technology

Advisor: Mr. Jeff Ball

Semester hours required for graduation: 69

The welding program provides practical hands-on experience needed to obtain a job in the welding field. This program provides skills that enable students to produce structurally sound and quality welds. Employment opportunities are found in maintenance, construction, fabrication, and related fields.

A. General Education: 21 Credit Hours

- COL 103 College Skills 3
- CPT 102 Basic Computer Concepts 3
- ENG 101 English Composition I 3
- MAT 101 Beginning Algebra 3
- PSY 201 General Psychology 3
- SPC 205 Public Speaking 3
- Fine Arts: Choose one below: 3
 - ART-101 Art History & Appreciation
 - or
 - MUS-105 Music Appreciation

B. Required Core Subject Areas:

Primary Technical Specialty:

33 Credit Hours

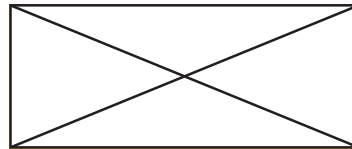
- WLD 103 Print Reading I 1
- WLD 106 Gas and Arc Welding 4
- WLD 111 Arc Welding I 4
- WLD 113 Arc Welding II 4
- WLD 132 Inert Gas Weld. Ferrous 4
- WLD 134 Inert Gas Weld. Nonferrous 3
- WLD 154 Pipe Fitting and Welding 4
- WLD 204 Metallurgy 3
- WLD 228 Inert Gas Pipe I 4
- WLD 229 Inert Gas Pipe II 2

Secondary Technical Specialty:

12 Credit Hours (minimum)

Select from Machine Tool Technology or Drafting and Design Technology curricula.

C. Technical Elective: 3 Credit Hours



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Industrial - Vocational Technology

Cosmetology

Award: *Diploma in Cosmetology*

Advisor: Ms. Charmaine Green

Semester hours required for graduation: 60

Upon receipt of the diploma in cosmetology, an application will be submitted to the state board of cosmetic art examiners. Students must successfully pass the exam to become licensed cosmetologists. Persons applying for admission to the cosmetology program must have proof of 10th grade completion (diploma or GED certificate/scores).

A. General Education: 9 Credit Hours

AOT 134 Office Communication	3
COL 103 College Skills	3

Choose one:

CPT 102 Basic Comp Concepts	3
or	
BUS 140 Business Mathematics	3

B. Major Courses: 51 Credit Hours

COS 101 Fund. of Cosmetology	3
COS 102 Sanitation Procedures	3
COS 106 Facial and Makeup	3
COS 108 Nail Care	3
COS 110 Scalp and Hair Care	3
COS 112 Shampoo and Rinses	4
COS 114 Hair Shaping	4
COS 116 Hair Styling I	4
COS 120 Mannequin Practice	3
COS 201 Salon Management	3
COS 206 Chemical Hair Waving	3
COS 208 Chemical Hair Relaxing	3
COS 210 Hair Coloring	3
COS 212 Hair Lightening	3
COS 220 Clinical Practice I	3
COS 222 Clinical Practice II	3

Cosmetology

Recommended Course Sequence*

Fall Semester I

COL 103
COS 101
COS 102
COS 110
COS 112

Spring Semester I

CPT 102
or
BUS 140

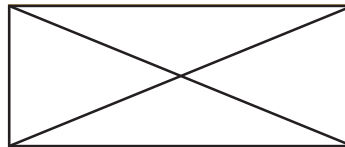
COS 114
COS 116
COS 120

Fall Semester II

AOT 134
COS 106
COS 206
COS 208
COS 220

Spring Semester II

COS 108
COS 201
COS 210
COS 212
COS 222



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Industrial - Vocational Technology

Automotive Repair

Award: Certificate in Automotive Repair

Advisor: Mr. Joe Altman

Semester hours required for graduation: 40

This program provides basic and advanced training in diagnostic and repair procedures for the major systems of today's cars and light trucks. The program is designed to meet the needs of those working in the field and those needing specific training for entry-level job skills.

A. General Educaiton: 6 Credit Hours

COL 103	College Skills	3
EGR 105	Safety in the Work Place	1
MAT 190	Math for the Workplace	2

B. Major Courses: 34 Credit Hours

AUT103	Engine Reconditioning	4
AUT112	Braking Systems	4
AUT121	Suspension and Steering	3
AUT142	Heating and Air Cond.	3
AUT146	Emission Systems	3
AUT149	Ignition and Fuel Systems	4
AUT152	Automatic Transmission	4
AUT156	Auto Diagnosis and Repair	4
AUT159	Tool, Equip. & Ref. Manuals	3
WLD 104	Gas Welding and Cutting	2

Automotive Repair

Recommended Course Sequence*

Fall Semester

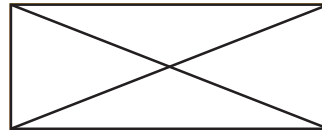
- AUT 121
- AUT 142
- COL 103
- EGR 105
- MAT 190
- WLD 104

Spring Semester

- AUT 146
- AUT 149
- AUT 152
- AUT 159

Summer Semester

- AUT 103
- AUT 112
- AUT 156



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Industrial - Vocational Technology

Basic Automotive Repair Technology

Award: Certificate in Basic Automotive Repair Technology

Advisor: Mr. Joe Altman

Semester hours required for graduation: 24

This program is designed to prepare the student for entry level work in a garage, performing basic repairs to automobiles and light trucks.

A. Major Courses: 24 Credit Hours

AUT 102	Engine Repair	4
AUT 111	Brakes	3
AUT 133	Electrical Fundamentals	3
AUT 159	Tools, Equip., & Ref. Man.	3
AUT 160	Intro. to Automotive Tech.	1
AUT 162	Personal Automotive Maint.	3
AUT 100	Intro. to Auto. Haz. Materials	1
AUT 161	Intro. to Auto. Maint.	1
IET 223	Industrial Safety	3
MAT 190	Math for The Workplace	2

Basic Automotive Repair Technology

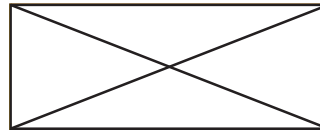
Recommended Course Sequence*

Fall Semester

AUT 102
AUT 111
AUT 133
AUT 159

Spring Semester

AUT 160
AUT 162
AUT 100
AUT 161
IET 223
MAT 190



** Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.*



Construction Trades

Award: Certificate in Construction Trades

Advisor: Mr. Mike Cumbie

Semester hours required for graduation: 34

This program provides basic general knowledge training for the individual interested in working in the residential and light commercial construction field.

A. Major Courses: 34 Credit Hours

BCT-101	Intro. to Bldg Constr.	(4-3-5)
BCT-102	Fund. of Bldg Constr.	(3-3-4)
BCT-105	Tool Usage and Safety	(2-0-2)
BCT-106	Beg. Woodworking	(1-3-2)
BCT-112	Constr. Print Reading	(2-0-2)
BCT-151	Intro. to Res. Plumbing	(3-0-3)
BCT-201	Prin. of Roof Constr.	(3-3-4)
BCT-203	Ext. and Int. Finishes	(4-3-5)
MAT-190	Math for the Workplace	(2-0-2)
MSY-101	Masonry Fund.	(4-3-5)

Construction Trades

Recommended Course Sequence*

Fall Semester

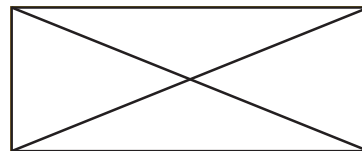
BCT-101
 BCT-106
 BCT-112
 BCT-203

Spring Semester

BCT-102
 BCT-105
 MAT-190
 MSY-101

Summer Semester

BCT-151
 BCT-201



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Drafting and Design Technology

Award: Certificate in Drafting and Design Technology

Advisor: Mr. Brandon Haselden
Semester hours required for graduation: 40

This program is designed for the student who is interested in a career in drafting and design. This is a program in principles, practices and techniques used in industry. Several fields of drafting are introduced in order that the student may choose a specific direction of interest after graduation. Some of the fields in which the certificate in drafting and design technology can be beneficial include architectural, civil, mechanical, structural, and electrical drafting.

A. General Education: 12 Credit Hours

COL 103	College Skills	3
CPT 102	Basic Computer Concepts	3
ENG 155	Communications I	3
MAT 155	Contemporary Mathematics	3

B. Major Courses: 28 Credit Hours

AET 110	Architectural Graphics I	3
AET 123	Architectural Drafting	3
EGT 105	Basic Civil Drafting	2
EGT 111	Mechanical Drawing I	2
EGT 112	Mechanical Drawing II	3
EGT 125	Descriptive Geometry	2
EGT 151	Introduction to CAD	3
EGT 152	Fundamentals of CAD	3
EGT 155	Intermediate CAD	3
EGT 220	Structural and Piping App.	4

Drafting and Design Technology

Recommended Course Sequence*

Fall Semester I

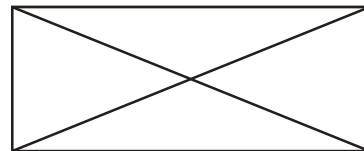
COL 103
EGT 151
MAT 155
EGT 105
EGT 125

Spring Semester I

AET 110
CPT 102
ENG 155
EGT 111
EGT 152

Fall Semester II

AET 123
EGT 112
EGT 155
EGT 220



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Heating, Ventilation, Air Conditioning and Refrigeration

Award: Certificate in HVAC/R

Advisor: Mr. Wille Morant

Semester hours required for graduation: 36

This program provides theory and practical experience on a variety of air conditioning and refrigeration equipment. After completion, students will be equipped with the basic skills required for entry-level heating and air conditioning positions.

A. General Education: 6 Credit Hours

COL 103	College Skills	3
CPT 102	Basic Computer Concepts	3

B. Major Courses: 30 Credit Hours

ACR 101	Fundamentals of Refrig.	5
ACR 106	Basic Electricity for HVAC/R	4
ACR 107	Wiring Diagrams	2
ACR 110	Heating Fundamentals	4
ACR 120	Basic Air Conditioning	4
ACR 131	Commercial Refrigeration	4
ACR 140	Automatic Controls	3
ACR 210	Heat Pumps	4

HVAC/R Certificate

Recommended Course Sequence*

First Semester

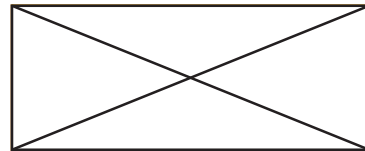
ACR 101
 ACR 107
 COL 103
 CPT 102

Second Semester

ACR 106
 ACR 131
 ACR 140

Third Semester

ACR 110
 ACR 120
 ACR 210



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Industrial - Vocational Technology

Machine Tool Technology

Award: Certificate in Machine Tool Technology

Advisors: Mr. Brandon Haselden and Mr. Mike Cumbie

Semester hours required for graduation: 37

The machine tool technology certificate is designed to prepare the student for further education in machine tool technology, such as a diploma or associate's degree, or an apprenticeship with a local industry.

A. General Education: 6 Credit Hours

COL 103	College Skills	3
MAT 101	Beginning Algebra	3

B. Major Courses: 31 Credit Hours

MTT 101	Introduction to Machine Tool	2
MTT 121	Machine Tool Theory I	3
MTT 122	Machine Tool Practice I	4
MTT 123	Machine Tool Theory II	3
MTT 124	Machine Tool Practice II	4
MTT 141	Metals and Heat Treatment	3
MTT 253	CNC Program.and Oper.	3
MTT 255	CNC Programming II	3
IET 223	Industrial Safety	3
EGT 106	Print Reading & Sketching	3

Machine Tool Technology

Recommended Course Sequence*

Fall Semester

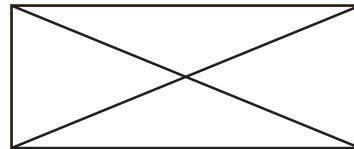
COL 103
IET 223
MTT 101
MTT 121
MTT 122

Spring Semester

EGT 106
MAT 101
MTT 141
MTT 123
MTT 124

Fall Semester

MTT 253
MTT 255



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Industrial - Vocational Technology

Basic Machine Tool Technology

Award: Certificate in Basic Machine Tool Technology

Advisor: Mr. Mike Cumbie

Semester hours required for graduation: 25

This program is designed to give the student a basic understanding of the machine tool trade, leading to employment as an assistant machinist or preparation for more advanced study in CNC operations.

A. Major Courses: 25 Credit Hours

EGT 123	Industrial Print Reading	2
IET 223	Industrial Safety	3
MAT 190	Math for The Workplace	2
MTT 100	Careers in Mach. Tool Tech.	1
MTT 102	Machine Tool Basics	3
MTT 111	Mach. Tool Theory & Prac. I	5
MTT 143	Precision Measurements	2
MTT 145	Machining of Metals	3
MTT 161	Machine Tool Maint.Theory	2
MTT 171	Industrial Quality Control	2

Basic Machine Tool Technology

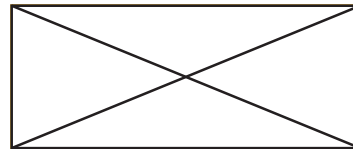
Recommended Course Sequence*

Fall Semester

EGT 123
 IET 223
 MAT 190
 MTT 100
 MTT 102

Spring Semester

MTT 111
 MTT 143
 MTT 145
 MTT 161
 MTT 171



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Industrial - Vocational Technology

Welding

Award: Certificate in Welding

Advisor: Mr. Jeff Ball

Semester hours required for graduation: 39

The student will be able to get practical hands-on experience needed to obtain employment in the welding field and to enhance skills if the student is already employed.

A. General Education: 5 Credit Hours

MAT 190	Math for the Workplace	2
COL 103	College Skills	3

B. Major Courses: 34 Credit Hours

EGR 105	Safety in the Workplace	1
WLD 103	Print Reading I	1
WLD 106	Gas and Arc Welding	4
WLD 111	Arc Welding I	4
WLD 113	Arc Welding II	4
WLD 132	Inert Gas Weld. Ferrous	4
WLD 134	Inert Gas Weld. Nonferrous	3
WLD 154	Pipe Fitting and Welding	4
WLD 204	Metallurgy	3
WLD 228	Inert Gas Pipe I	4
WLD 229	Inert Gas Pipe II	2

Welding

Recommended Course Sequence*

Fall Semester

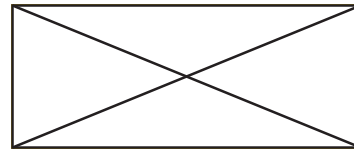
COL 103
EGR 105
WLD 103
WLD 106
WLD 111

Spring Semester

WLD 113
WLD 132
WLD 134
WLD 154
MAT 190

Summer Semester

WLD 204
WLD 228
WLD 229



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.



Industrial - Vocational Technology

Basic Welding Technology

Award: Certificate in Basic Welding Technology

Advisor: Mr. Jason Kinder

Semester hours required for graduation: 24

This program is designed to prepare the student in the fundamentals of welding. Students will be prepared for entry-level positions in the welding field.

A. Major Courses: 24 Credit Hours

IET 223	Industrial Safety	3
MAT 190	Math for The Workplace	2
WLD 101	Cutting Processes	1
WLD 102	Introduction to Welding	2
WLD 103	Print Reading I	1
WLD 104	Gas Welding and Cutting	2
WLD 106	Gas and Arc Welding	4
WLD 116	Welding	2
WLD 132	Inert Gas Welding Ferrous	4
WLD 204	Metallurgy	3

Basic Welding Technology

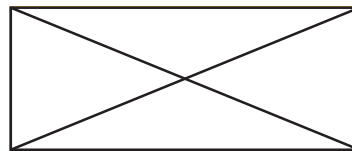
Recommended Course Sequence*

Fall Semester

IET 223
WLD 101
WLD 102
WLD 103
WLD 104
MAT 190

Spring Semester

WLD 106
WLD 116
WLD 132
WLD 204



* Graduation times may vary according to course availability and/or individual course load. Consult faculty advisor.