

DEGREE/CERTIFICATE PROGRAMS



GENERAL EDUCATION

General Education is that portion of the collegiate experience which addresses the knowledge, skills, attitudes, and values characteristic of an educated person. It is unbounded by disciplines and honors the connections among bodies of knowledge. A student who completes a Gadsden State educational program consisting of a long certificate or associate degree is expected to meet these competencies at the level appropriate to the credential. A student who completes a Gadsden State educational program consisting of a certificate is expected to meet General Education Core Competencies so they can communicate, both orally and in writing, perform basic computational skills, and use technology. The ultimate goal of the General Education Core Competencies is to produce associate degree graduates who are articulate, reflective, creative, intellectually flexible, and prepared for continuous learning. The College's General Education Core Competencies are:

1. Students will demonstrate the ability to communicate effectively in a style appropriate to the subject, occasion, and audience.

2. Students will demonstrate the ability to use appropriate mathematical tools in the solution of problems.
3. Students will demonstrate an understanding of arts and humanities.
4. Students will demonstrate the ability to understand, construct, and evaluate relationships in the natural sciences.
5. Students will demonstrate an understanding of how social and behavioral sciences discover, describe and explain the behaviors and interactions among individuals, groups, institutions, events, and ideas.
6. Students will demonstrate a functional knowledge and application of appropriate technology.

The degree and long certificate programs at the College support this collegiate initiative which focuses on the above narrative and attendant elements.

DEGREES AND CERTIFICATES

Gadsden State Community College offers programs leading to three degrees — Associate in Arts Degree, Associate in Science Degree and Associate in Applied Science Degree.

Two certificates — the Certificate and the Short-term Certificate — are also offered. Here are the requirements for each:

Associate in Arts Degree or Associate in Science Degree

The requirements for the Associate in Arts (A.A.) degree and for the Associate in Science (A.S.) degree, which are listed below, are identical. Student courses that are approved for the General Studies Curriculum may transfer to an Alabama public two-year or four-year educational institution as credit for those courses required for their major. If the student com-

pletes the curriculum for a specific degree, he/she may graduate with the appropriate A.A. or A.S. degree. Almost without exception, the student completes 60-64 semester hours of coursework as prescribed, depending on the four-year college to which he/she transfers.

AREA OF COURSEWORK	SEMESTER HOURS
AREA I: Written Composition I and II	6
AREA II: Humanities and Fine Arts <ul style="list-style-type: none"> • Must complete a minimum of 3 semester hours in Literature* • Must complete 3 semester hours in the Fine Arts • Must complete 6 additional semester hours in Humanities or Fine Arts • Must complete a two-course sequence in either Literature OR History 	12

AREA OF COURSEWORK	SEMESTER HOURS
AREA III: Natural Sciences and Mathematics <ul style="list-style-type: none"> • Must complete 3 semester hours in Mathematics at the precalculus, algebra or finite math level • Must complete 8 semester hours in the Natural Sciences, which must include laboratory experiences. In addition to mathematics, disciplines in the natural sciences include the following: astronomy, biological sciences, chemistry, geology, physical geography, earth science, physics and physical sciences 	11
AREA IV: History, Social and Behavioral Sciences <ul style="list-style-type: none"> • Must complete a minimum of 3 semester hours in History* • Must complete at least 6 semester hours from among other disciplines in the Social and Behavioral Sciences. Social and Behavioral Sciences include, but are not limited to, the following: anthropology, economics, geography, political science, psychology and sociology • Must complete a two-course sequence in either Literature OR History 	12
AREA V: Pre-Professional, Pre-Major and Elective Courses <ul style="list-style-type: none"> • Course appropriate to the degree requirements and major of the individual student. Students completing courses that have been approved for the General Studies Curriculum and are appropriate to their majors and/or degree programs may transfer these courses with credit applicable to their degree programs among the Alabama public two-year and four-year colleges and universities. 	19-23
TOTAL SEMESTER CREDIT HOURS	60 - 64

***NOTICE:** The sequence in Area II and IV in literature or history needs to follow the sequence requirements according to the student's major and transfer plans. These requirements are outlined in the "Programs of Study" section of this catalog, for a total of 60-64 semester hours, or 50% of the total required by the college or university to which the student plans to transfer.

Associate in Applied Science Degree

The requirements for the Associate in Applied Science (A.A.S.) degree—which is for students planning to specialize in technical, business, semi-professional, and supervisory fields that are career oriented or, in selected fields, to transfer to a senior institution — are listed below.

AREA OF COURSEWORK	SEMESTER HOURS
AREA I: Written Composition I and II	3-6
AREA II: Humanities and Fine Arts <ul style="list-style-type: none"> • Areas I and II must include a minimum of 9 semester hours • Must complete 3 semester hours in Humanities or Fine Arts 	3-6
AREA III: Natural Sciences and Mathematics <ul style="list-style-type: none"> • Must complete a minimum of 3 semester hours in Math (100 level or numerically higher) • In addition to Math, disciplines in the Nature Sciences include astronomy, biology, chemistry, physics and physical science. 	6-11

AREA OF COURSEWORK	SEMESTER HOURS
AREA IV: History, Social and Behavioral Sciences <ul style="list-style-type: none"> In addition to History, the Social and Behavioral Sciences include the following: anthropology, economics, geography, political science, psychology and sociology. Any student seeking the AAS as a terminal award is <u>not</u> required to complete more than three semester hours in this area. 	3-6
AREA V: Maximum General Education Core, Technical Concentration and Electives <ul style="list-style-type: none"> In addition to the courses in the preceding four areas, the student must take whatever core and /or elective courses that are appropriate to the requirements for the degree or for the occupational or technical specialty that the student is pursuing. 	31-61
TOTAL SEMESTER CREDIT HOURS	60 - 76

If the student is planning a program of study for which the A.A.S. degree does not represent the terminal degree and for which national or regional programmatic licensure and certification are required, the student should try to integrate General Studies transfer courses into his/her program whenever possible.

Certificate

The requirements for the certificate, which entail from 30 to 60 hours, are listed below:

AREA OF COURSEWORK	SEMESTER HOURS
AREA I: Written Composition <ul style="list-style-type: none"> COM 100 may be substituted for English Composition I and II only in system-wide non-degree eligible programs 	3-6
AREA II: Humanities and Fine Arts	0-6
AREA III: Natural Sciences and Mathematics <ul style="list-style-type: none"> Must select courses from mathematics or science. Mathematics may be substituted only in system wide, non-degree eligible programs. 	3-7
AREA IV: Social and Behavioral Sciences and History	0
AREA V: Maximum General Education Core, Technical Concentration and Electives* <ul style="list-style-type: none"> In addition to the courses referred to in the preceding four areas, the student must take those courses appropriate to the certificate requirements and to the occupational or technical specialty requirements, as well as core courses and elective courses. 	11-54
TOTAL SEMESTER CREDIT HOURS	30 -60

Short-term Certificate

The requirements for the short-term certificate, which entail from as few as 9 but no more than 29 semester hours, are listed below:

AREA OF COURSEWORK	SEMESTER HOURS
AREA I: Written Composition <ul style="list-style-type: none"> It is recommended that the student take at least one technical writing course 	0-3
AREA II: Humanities and Fine Arts	0
AREA III: Natural Sciences and Mathematics	0-3
AREA IV: Social and Behavioral Sciences and History	0
AREA V: Maximum General Education Core, Technical Concentration and Electives* <ul style="list-style-type: none"> In addition to the courses referred to in the preceding four areas, the student must take those courses appropriate to the certificate requirements and to the occupational or technical specialty requirements, as well as core courses and elective courses. 	9-29
TOTAL SEMESTER CREDIT HOURS	9 - 29

NOTICE: For certificates with 6 hours of general education credits, the minimum total credit hours will be 15 credit hours.

CORE CURRICULUM

Alabama Articulation Program (STARS)

Because GSCC is in partnership with the Statewide Articulation and General Studies Agreement, students are assured that credit earned for Gadsden State courses identified as part of the core curriculum will transfer to any Alabama two- or four-year public institution of higher education.

The Alabama Articulation Program (also called STARS for Statewide Transfer and Articulation Reporting System) is Alabama's web-accessible articulation and transfer planning database, which has been designed to inform students who attend Alabama community colleges about degree requirements, course equivalents, and other transfer information pertaining to specific majors at each state-funded four-year institution. As the information link between Alabama's public two-year and four-year institutions, STARS efficiently and effectively provides students, counselors, and educators with accurate information upon which transfer decisions can be made. The STARS system, if used properly, can prevent the loss of course credit hours, provide direction for the scheduling of coursework, and ease the student's transition from one institution to another.

This information is available to the public via the Internet. A variety of information, including an AGSC-approved transfer guide, may be obtained from the STARS website: <http://stars.troy.edu>.

General Education or Core Course Listing

The following lists contain the core curriculum, a set of courses identified by the Alabama Articulation Program as acceptable for transfer to the public colleges and universities in Alabama and that Gadsden State offers to fulfill the general education requirements for degree and certificate programs. Courses not listed in the core may satisfy graduation requirements at Gadsden State, and also may be accepted for transfer to other colleges. Students should consult an advisor for additional information.

As a requirement of the General Education core competencies described previously, students seeking the A.A., A.S., or A.A.S. Degree are required to complete a minimum of 15 semester hours of course work with at least one course from each of the following: pure humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics.

The following list identifies the courses determined to meet these core competencies. When following the appropriate program of study, the student will complete a minimum of one course in each of the following three areas:

Humanities & Fine Arts (Pure Humanities Elective)

ART 100 Art Appreciation	ENG 271 World Literature I
ART 109 Art Museum Survey	ENG 272 World Literature II
ART 113 Drawing I	HUM 101 Intro to Humanities I
ART 114 Drawing II	HUM 102 Intro to Humanities II
ART 203 Art History	MUS 101 Music Appreciation
ART 204 Art History II	THR 120 Theater Appreciation
ART 254 Graphic Design II	THR 126 Intro to Theater
ENG 251 American Literature I	PHL 106 Introduction to Philosophy
ENG 252 American Literature II	PHL 206 Ethics and Society
ENG 261 English Literature I	REL 151 Survey of the Old Testament
ENG 262 English Literature II	REL 152 Survey of the New Testament

Natural Science & Mathematics

AST 220 Introduction to Astronomy	MTH 112 Pre-Calculus Algebra
BIO 101 Intro to Biology I	MTH 113 Pre-Calculus Trigonometry
BIO 102 Intro to Biology II	MTH 125 Calculus I
BIO 103 Principles of Biology I	MTH 126 Calculus II
BIO 104 Principles of Biology II	MTH 227 Calculus III
CHM 104 Introduction to Inorganic Chemistry	MTH 237 Linear Algebra
CHM 105 Introduction to Organic Chemistry	PHS 111 Physical Science I
CHM 111 College Chemistry I	PHS 112 Physical Science II
CHM 112 College Chemistry II	PHY 201 General Physics I-Trig Based
GEO 101 Principles of Physical Geography	PHY 202 General Physics II-Trig Based
GEO 102 Principles of Geography II	PHY 213 General Physics with Calculus I
MTH 110 Finite Mathematics	PHY 214 General Physics with Calculus II

History, Social and Behavioral Sciences

ANT 200 Introduction to Anthropology	HIS 122 World History II
ECO 231 Principles of Macroeconomics	HIS 201 U.S. History I
ECO 232 Principles of Microeconomics	HIS 202 U.S. History II
GEO 100 World Regional Geography	POL 211 American National Government
HIS 101 Western Civilization I	PSY 200 General Psychology
HIS 102 Western Civilization II	PSY 210 Human Growth and Development
HIS 121 World History I	SOC 200 Introduction to Sociology

PROGRAMS OF STUDY

The Academic and Technical divisions of GSCC offer programs leading to degrees and certificates. The Academic Division also prepares students planning to transfer to four-year institutions in quest of baccalaureate degrees in areas of study for which Gadsden State does not grant degrees. The College has designated at least one instructor to serve as advisor for each degree or certificate program, at least one advisor for each area of study in which Gadsden State offers courses but does not offer a degree, and at least one advisor for those students who have yet to select a degree or a certificate program. Advisor information appears under each program of study. Students should consider the following notices while planning courses within the selected program of study:

- The statements in this catalog and student handbook are informational only; they are **NOT** the basis of a contract between the student and the College. Although Gadsden State will try to do what this book says that it will do and will make every effort to let the student know about any changes, the College has the right to change any such provision without notifying the student individually. If it becomes necessary for Gadsden State

to eliminate a program, the College may substitute a limited number of courses in order for the student to complete that program.

- Because program requirements at one four-year college or university often differ from those at another, a student who intends to pursue a four-year degree should refer to the requirements of the transfer institution to ensure that the courses taken at Gadsden State are applicable toward the degree sought.
- Gadsden State may grant, but is **NOT** required to do so, up to twenty (20) semester hours of credit to a student in a technical program for prior study-related work and/or educational experiences. Such credit is posted to the student's transcript at the time that approved paperwork is submitted from the Office of the Dean of Technical Education and Workforce Development.

ACCOUNTING TECHNOLOGY A.A.S.

Advisors - Ayers Campus: Alison Hollingsworth (256.835.5415) ahollingsworth@gadsdenstate.edu;

Wallace Drive Campus: Jamie Payton (256.549.8347) jpayton@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition: 6		
• ENG 101 - English Composition I	3	_____
• ENG 102 - English Composition II	3	_____
Area II - Humanities and Fine Arts: 3		
• Humanities OR Fine Arts*.....	3	_____
Area III – Natural Sciences and Mathematics: 7		
• MTH 100 - Intermediate College Algebra OR MTH 112 - Precalculus Algebra OR Higher level Math	3	_____
• Natural Science and Lab	4	_____
Area IV – History, Social and Behavioral Sciences:..... 3		
• ECO 231 - Principles of Macroeconomics	3	_____
Area V – Pre-Professional, Pre-Major and Electives: 49		
• ACT 246 - Microcomputer Accounting.....	3	_____
• ACT 247 - Advanced Accounting Applications on the Microcomputer.....	3	_____
• ACT 249 - Payroll Accounting.....	3	_____
• ACT 253 - Individual Income Tax.....	3	_____
• ACT 256 - Cost Accounting.....	3	_____
• BUS 100 - Introduction to Business	3	_____
• BUS 146 - Personal Finance	3	_____
• BUS 241 - Principles of Accounting I.....	3	_____
• BUS 242 - Principles of Accounting II.....	3	_____
• BUS 263 - The Legal and Social Environment of Business.....	3	_____
• BUS 276 - Human Resource Management.....	3	_____
• CIS 146 - Microcomputer Applications.....	3	_____
• CIS 147 - Advanced Micro Applications	3	_____
• OAD 130 - Electronic Calculations.....	3	_____
• OAD 138 - Records and Information Management.....	3	_____
• ORI 101 - Orientation to College	1	_____
• SPH 106 - Fundamentals of Oral Communication.....	3	_____
Total Hours Required for Degree: 68		

***Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

ACCOUNTING SPECIALIST (COMPUTERIZED) SHORT-TERM CERTIFICATE

Advisors – Ayers Campus: Alison Hollingsworth (256.835.5415) ahollingsworth@gadsdenstate.edu;

Wallace Drive Campus: Jamie Payton (256.549.8347) jpayton@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area V—Professional, Major and Elective Courses:.....25		
• ACT 246 - Microcomputer Accounting.....3	_____	_____
• ACT 247 - Advanced Accounting Applications on the Microcomputer3	_____	_____
• ACT 249 - Payroll Accounting.....3	_____	_____
• ACT 253 - Individual Income Tax.....3	_____	_____
• BUS 241 - Principles of Accounting I.....3	_____	_____
• CIS 146 - Microcomputer Applications3	_____	_____
• CIS 147 - Advanced Micro Applications3	_____	_____
• OAD 130 - Electronic Calculations3	_____	_____
• ORI 101 - Orientation to College.....1	_____	_____
Total Hours Required for Certificate:.....25		

AIR CONDITIONING AND REFRIGERATION A.A.S.

Advisors – Ayers Campus: Joseph Hulsey, Air Conditioning Refrigeration Building (256.835.5418)

jhulsey@gadsdenstate.edu;

Valley Street Campus: Tim Hardy, Air Conditioning Refrigeration Building (256.549.8662) thardy@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I — Written Composition: 3		
• ENG 101 - English Composition I..... 3	_____	_____
Area II — Humanities and Fine Arts: 3		
• Humanities and Fine Arts Elective*: 3	_____	_____
Area III — Natural Science or Mathematics: 6		
• INT 104 - Principles of Technology 3	_____	_____
• MTH 100 - Intermediate College Algebra OR numerically higher 3	_____	_____
Area IV — History, Social and Behavioral Sciences: 3		
• Economics, Geography, History, Political Science, Psychology, or Sociology 3	_____	_____
Area V - Technical Courses: 22		
Courses listed below are required.		
• ACR 111 - Principles of Refrigeration..... 3	_____	_____
• ACR 112 - HVACR Service Procedures..... 3	_____	_____
• ACR 113 - Refrigeration Piping Practices 3	_____	_____
• ACR 121 - Principles of Electricity for HVACR 3	_____	_____
• ACR 122 - HVACR Electric Circuits..... 3	_____	_____
• ACR 123 - HVAC/R Electrical Components..... 3	_____	_____
• EET 100 - Introduction to Engineering Technologies..... 3	_____	_____
• ORI 101 - Orientation to College..... 1	_____	_____
Additional Coursework: 39		
• ACR 119 - Fundamentals of Gas Heating Systems 3	_____	_____
• ACR 120 - Fundamentals of Electric Heating Systems 3	_____	_____
• ACR 126 - Commercial Heating Systems..... 3	_____	_____
• ACR 125 – Fundamentals of Gas and Electrical Heating Systems 6	_____	_____
• ACR 127 - HVACR Electric Motors..... 3	_____	_____
• ACR 128 - Heat Load Calculations..... 3	_____	_____
• ACR 130 - Computer Assisted HVAC Troubleshooting..... 1	_____	_____

AIR CONDITIONING AND REFRIGERATION A.A.S. continued

	STUDENT PROGRESS	
	<u>Grade</u>	<u>Term Completed</u>
• ACR 132 - Residential Air Conditioning 3	_____	_____
• ACR 133 - Domestic Refrigeration 3	_____	_____
• ACR 134 - Ice Machines 3	_____	_____
• ACR 135 - Mechanical/Gas/Safety Codes 3	_____	_____
• ACR 138 - Customer Relation in HVAC..... 3	_____	_____
• ACR 144 - Basic Drawing and Blueprint Reading in HVAC 3	_____	_____
• ACR 147 - Refrigerant Transition and Recovery Theory 3	_____	_____
• ACR 148 - Heat Pump Systems I..... 3	_____	_____
• ACR 149 - Heat Pump Systems II..... 3	_____	_____
• ACR 152 – Heat Pump Systems..... 6	_____	_____
• ACR 181 - Special Topics in ACR I..... 3	_____	_____
• ACR 182 - Special Topics in ACR II..... 3	_____	_____
• ACR 183 - Special Topics in ACR..... 1	_____	_____
• ACR 184 - Special Topics in ACR..... 1	_____	_____
• ACR 185 - Special Topics in ACR..... 2	_____	_____
• ACR 186 - Special Topics in ACR..... 2	_____	_____
• ACR 192 - HVAC Apprenticeship/Internship 3	_____	_____
• ACR 200 - Review for Contractors Exam..... 3	_____	_____
• ACR 202 - Special Refrigeration Systems 3	_____	_____
• ACR 203 - Commercial Refrigeration 3	_____	_____
• ACR 205 - System Sizing and Air Distribution 3	_____	_____
• ACR 209 - Commercial Air Conditioning Systems 3	_____	_____
• ACR 210 - Troubleshooting HVACR Systems..... 3	_____	_____
• CIS 146 - Microcomputer Applications 3	_____	_____
• MDT 105 - Introduction to Computer-Aided Design (CAD) OR DDT 104 –Basic Computer-Aided Drafting and Design..... 3	_____	_____
• EET 103 - DC Fundamentals OR INT 101 - DC Fundamentals 3	_____	_____
• EET 104 - AC Fundamentals OR INT 103 - AC Fundamentals 3	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____

Total Hours Required for Degree: 76

NOTICE(s): For the A.A.S. Degree in Air Conditioning and Refrigeration, the student must complete a minimum of 76 credit hours – a minimum of 61 in technical courses and a minimum of 15 in general education courses – all of which must be approved by the advisor. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student’s major advisor. Technical courses may vary to meet student needs and to provide options. Admission Requirement: High school diploma or GED.

***Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

AIR CONDITIONING AND REFRIGERATION CERTIFICATE

Advisors – Ayers Campus: Joseph Hulsey, Air Conditioning Refrigeration Building (256.835.5418)

jhulsey@gadsdenstate.edu;

Valley Street Campus: Tim Hardy, Air Conditioning Refrigeration Building (256.549.8662) thardy@gadsdenstate.edu

	STUDENT PROGRESS	
	Grade	<u>Term Completed</u>
Area I — Written Composition: 3		
• ENG 101 - English Composition I 3	_____	_____
Area II — Humanities and Fine Arts: 0		
Area III — Natural Science or Mathematics: 3		
• MTH 100 - Intermediate College Algebra OR numerically higher 3	_____	_____
Area IV — History, Social and Behavioral Sciences: 0		
Area V – Technical Courses: 40		
Courses listed below are required.		
• * ACR 111 - Principles of Refrigeration 3	_____	_____
• * ACR 112 - HVACR Service Procedures 3	_____	_____
• * ACR 113 - Refrigeration Piping Practices 3	_____	_____
• ACR 119 - Fundamentals of Gas Heating Systems 3	_____	_____
• ACR 120 - Fundamentals of Electric Heating Systems 3	_____	_____
• * ACR 121 - Principles of Electricity for HVACR 3	_____	_____
• * ACR 122 - HVACR Electric Circuits 3	_____	_____
• * ACR 123 - HVAC/R Electrical Components 3	_____	_____
• ACR 132 - Residential Air Conditioning 3	_____	_____
• ACR 148 - Heat Pump Systems I 3	_____	_____
• ACR 202 - Special Refrigeration..... 3	_____	_____
• ACR 209 - Commercial Air Conditioning Systems..... 3	_____	_____
• ACR 210 - Troubleshooting HVACR Systems 3	_____	_____
• CIS 146 - Microcomputer Applications 3	_____	_____
• MDT 105 - Introduction to Computer-Aided Design (CAD) OR DDT 104 –Basic Computer-Aided Drafting and Design 3	_____	_____
• * ORI 101 - Orientation to College 1	_____	_____
• SPH 106 - Fundamentals of Oral Communication..... 3	_____	_____
*Required courses		

Total Hours Required for Certificate:.....46

NOTICE(s): For the certificate in Air Conditioning and Refrigeration, the student must complete a minimum of 46 credit hours – 40 hours in technical courses and 6 hours in general education courses— all of which must be approved by the advisor. Required courses may vary to provide options and to meet student needs.

Admission Requirement: High school diploma or GED.

AIR CONDITIONING AND REFRIGERATION SHORT-TERM CERTIFICATE

Advisors – Ayers Campus: Joseph Hulsey, Air Conditioning Refrigeration Building (256.835.5418)

jhulsey@gadsdenstate.edu

Valley Street Campus: Tim Hardy, Air Conditioning Refrigeration Building (256.549.8662) thardy@gadsdenstate.edu

STUDENT PROGRESS

Required Courses	<u>Grade</u>	<u>Term Completed</u>
• ACR 111 - Principles of Refrigeration.....3	_____	_____
• ACR 112 - HVACR Service Procedures.....3	_____	_____
• ACR 113 - Refrigeration Piping Practices.....3	_____	_____
• ACR 119 - Fundamentals of Gas Heating Systems.....3	_____	_____
• ACR 120 - Fundamentals of Electric Heating Systems.....3	_____	_____
• ACR 121 - Principles of Electricity for HVACR.....3	_____	_____
• ACR 122 - HVACR Electric Circuits.....3	_____	_____
• ACR 123 - HVAC/R Electrical Components.....3	_____	_____
• ACR 148 - Heat Pump Systems I.....3	_____	_____
• ORI 101 - Orientation to College.....1	_____	_____
Total Hours Required for Certificate:.....28		

NOTICE(s): For the short-term certificate in Air Conditioning and Refrigeration, the student must complete all courses listed above - all of which must be approved by the advisor. Admission Requirement: High school diploma or GED.

AQUACULTURE TECHNICIAN SHORT-TERM CERTIFICATE

Advisor – Wallace Drive Campus: Hugh Hammer (256.549.8345) hhammer@gadsdenstate.edu

This is a one-year program designed to prepare students to operate and manage a fish farm. The curriculum consists of both lecture and laboratory instruction in scientific information and intensive management practices.

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Required Courses:		
• CIS 146 - Microcomputer Applications.....3	_____	_____
• ENG 101 - English Composition I.....3	_____	_____
• FHS 101 - Principles of Aquaculture.....3	_____	_____
• FHS 102 - Water Chemistry for Aquaculture.....3	_____	_____
• FHS 112 - Biology and Diseases of Aquaculture Species.....3	_____	_____
• FHS 114 - Aquaculture Hatchery / Pond Management.....3	_____	_____
• FHS 140 - Aquaculture Practicum (Part 1).....3	_____	_____
• FHS 141 - Aquaculture Practicum II (Part 2).....2	_____	_____
• MTH 100 - Intermediate College Algebra.....3	_____	_____
• ORI 101 - Orientation to College.....1	_____	_____
Total Hours Required for Certificate:.....27		

AUTO COLLISION REPAIR TECHNOLOGY CERTIFICATE

continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
• ABR 269 - Estimating and Damage Analysis.3	_____	_____
• ABR 281 - Special Topics in Auto Body3	_____	_____
• ABR 291 - Auto Body Repair Co-Op OR ABR 292 - Auto Body Repair Co-Op OR		
ABR 293 – Auto Body Repair Co-Op3	_____	_____
• DPT 100 - Introductory Computer Skills OR		
CIS 146 - Microcomputer Application3	_____	_____
• * ORT 100 - Orientation for Career Student1	_____	_____
• SPC 103 - Oral Communication Skill OR		
SPH 106 - Fundamentals of Oral Communication OR3	_____	_____
*Required Courses		

Total Hours Required for Certificate: 60

NOTICE(s): For the certificate in Auto Collision Repair Technology, the student must complete a minimum of 60 credit hours – 54 in technical courses and 6 in general education courses – all of which must be approved by the advisor. Required courses may vary to provide options and to meet student needs. Courses will be selected from those listed above. Admission Requirement: The student must be age 17 or older.

AUTO COLLISION REPAIR TECHNOLOGY SHORT-TERM CERTIFICATE

Advisors – Ayers Campus: Brandon Patterson, Auto Collision Repair Building (256.835.5425)

bpatterson@gadsdenstate.edu

East Broad Campus: Bruce Hill, Auto Collision Repair Building (256.549.8617) bhill@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Required Technical Courses:		
• ABR 111 - Non-Structural Repair3	_____	_____
• ABR 114 - Non-Structural Panel Replacement3	_____	_____
• ABR 122 - Surface Preparation3	_____	_____
• ABR 123 - Paint Application and Equipment3	_____	_____
• ABR 151 - Safety and Environmental Practices3	_____	_____
• ABR 154 - Automotive Glass and Trim3	_____	_____
• ABR 157 – Automotive Plastic Repairs3	_____	_____
• ABR 265 - Paint Defects and Final Repair3	_____	_____
• ORT 100 - Orientation for Career Students1	_____	_____
Total Hours Required for Certificate:.....25		

NOTICE(s): For the short-term certificate in Auto Collision Repair Technology, the student must complete all of the 25 credit hours listed above. All courses must be approved by the advisor. Admission Requirement: The student must be age 17 or older.

AUTOMOTIVE MANUFACTURING TECHNOLOGY A.A.S.

Advisors – Ayers Campus: Andrew Robertson, Electronics Building (256.835.5427) arobertson@gadsdenstate.edu; Audrey Webb, Electronics Building (256.835.5460) awebb@gadsdenstate.edu
East Broad Campus: Jack Mayfield, Industrial Automation Building (256.549.8637) jmayfield@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition:3		
• ENG 101 - English Composition I3	_____	_____
Area II – Humanities and Fine Arts:3		
• Humanities and Fine Arts Elective*3	_____	_____
Area III – Natural Science or Mathematics:6		
• INT 104 - Principles of Technology3	_____	_____
• MTH 100 - Intermediate College Algebra OR numerically higher3	_____	_____
Area IV – History, Social and Behavioral Sciences:3		
• Economics, Geography, History, Political Science, Psychology, or Sociology3	_____	_____
Area V - Technical Courses:22		
Courses listed below are required.		
• AUT 100 - Introduction to Automotive Concepts3	_____	_____
• AUT 102 - Lean Manufacturing and Industrial Safety3	_____	_____
• AUT 104 - Blueprint Reading for Manufacturing3	_____	_____
• AUT 110 - DC Fundamentals3	_____	_____
• AUT 114 - Introduction to Programmable Logic Controllers3	_____	_____
• AUT 118 - Introduction to Engineering Technology3	_____	_____
• AUT 139 – Introduction to Robotic Programming3	_____	_____
• ORI 101 - Orientation to College1	_____	_____
Additional Coursework:39		
• AUT 106 - Quality Control and Inspection Techniques3	_____	_____
• * AUT 111 - AC Fundamentals3	_____	_____
• AUT 116 – Introduction to Robotics3	_____	_____
• AUT 117 - AC/DC Machines3	_____	_____
• AUT 121 - Elements of Industrial Control3	_____	_____
• AUT 122 - Elements of Industrial Control Lab2	_____	_____
• AUT 130 - Fundamentals of Industrial Hydraulics and Pneumatics3	_____	_____
• AUT 134 - Industrial Motors3	_____	_____

AUTOMOTIVE MANUFACTURING TECHNOLOGY A.A.S. continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
• AUT 136 - Principles of Refrigeration3	_____	_____
• AUT 138 - Principles of Industrial Mechanics3	_____	_____
• AUT 142 - Industrial Wiring3	_____	_____
• AUT 150 - Introduction to Machine Shop I3	_____	_____
• AUT 151 - Introduction to Machine Shop I Lab.....3	_____	_____
• AUT 155 - Metrology3	_____	_____
• AUT 186 - Principles of Industrial Maintenance Welding and Metal Cutting Techniques3	_____	_____
• AUT 193 - Special Topics (Electrical/Electronic)1	_____	_____
• AUT 194 - Special Topics (Electrical/Electronic)2	_____	_____
• AUT 195 - Special Topics (Electrical/Electronic)3	_____	_____
• AUT 221 - Advanced Programmable Logic Controllers3	_____	_____
• AUT 230 - Preventive and Predictive Maintenance3	_____	_____
• AUT 234 - Industrial Motor Controls I3	_____	_____
• AUT 262 - Computer Integrated Manufacturing3	_____	_____
• AUT 291 - Automotive Cooperative Education1	_____	_____
• AUT 292 - Automotive Cooperative Education2	_____	_____
• AUT 293 - Automotive Cooperative Education3	_____	_____
• CIS 146 - Microcomputer Applications3	_____	_____
• MDT 105 - Introduction to Computer-Aided Design (CAD) OR DDT 104 –Basic Computer-Aided Drafting and Design3	_____	_____
• SPH 106 - Fundamentals of Oral Communication.....3	_____	_____

***Required Courses**

Total Hours Required for Degree: 76

NOTICE(s): For the A.A.S. Degree in Automotive Manufacturing Technology, the student must complete a minimum of 76 credit hours – a minimum of 61 in technical courses and a minimum of 15 in general education courses – all of which must be approved by the advisor. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student’s major advisor. Technical courses may vary to meet the student needs and to provide options. Admission Requirement: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

***Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

AUTOMOTIVE MANUFACTURING TECHNOLOGY CERTIFICATE

Advisors – Ayers Campus: Audrey Webb, Electronics Building (256-835-5460) awebb@gadsdenstate.edu;

Andrew Robertson, Electronics Building (256.835-5427) arobertson@gadsdenstate.edu

East Broad Campus: Jack Mayfield, Industrial Automation Building (256.549.8637) jmayfield@gadsdenstate.edu

STUDENT PROGRESS

Grade Term Completed

Area I — Written Composition:3

- ENG 101 - English Composition I.....3

Area II — Humanities and Fine Arts:0

Area III — Natural Science or Mathematics:3

- MTH 100 - Intermediate College Algebra **OR**
numerically higher3

Area IV — History, Social and Behavioral Sciences:0

Area V – Technical Courses:37

- * AUT 100 - Introduction to Automotive Concepts.....3
- * AUT 102 - Lean Manufacturing and Industrial Safety3
- * AUT 104 - Blueprint Reading for Manufacturing.....3
- * AUT 110 - DC Fundamentals.....3
- * AUT 111 - AC Fundamentals.....3
- * AUT 114 - Introduction to Programmable Logic Controllers.3
- AUT 118 - Introduction to Engineering Technology.....3
- AUT 130 - Fundamentals of Industrial Hydraulics and
Pneumatics.....3
- AUT 138 - Principles of Industrial Mechanics.....3
- * AUT 139 – Introduction to Robotic Programming.....3
- * AUT 150 - Introduction to Machine Shop I.....3
- AUT 155 - Metrology.....3
- AUT 234 - Industrial Motor Controls I.....3
- CIS 146 - Microcomputer Applications3
- MDT 105 - Introduction to Computer-Aided Design (CAD) **OR**
DDT 104 –Basic Computer-Aided Drafting and Design3
- * ORI 101 - Orientation to College.....1
- SPH 106 - Fundamentals of Oral Communication.....3

***Required Courses**

Total Hours Required for Degree:43

NOTICE(s): For the certificate in Automotive Manufacturing Technology, the student must complete at least 43 credit hours—at least 37 in technical courses and at least 6 in general education courses—all of which must be approved by the advisor. Technical courses, which may vary to meet student needs and to provide options, must be selected from those listed above. Admission Requirement: High school diploma or GED.

AUTOMOTIVE MANUFACTURING TECHNOLOGY SHORT-TERM CERTIFICATE

Advisors – Ayers Campus: Andrew Robertson, Electronics Building (256.835.5427) arobertson@gadsdenstate.edu;
Audrey Webb, Electronics Building (256-835-5460) awebb@gadsdenstate.edu

East Broad Campus: Jack Mayfield, Industrial Automation Building (256.549.8637) jmayfield@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Required Courses:		
• AUT 100 - Introduction to Automotive Concepts.....3	_____	_____
• AUT 102 - Lean Manufacturing and Industrial Safety.....3	_____	_____
• AUT 104 - Blueprint Reading for Manufacturing.....3	_____	_____
• AUT 110 - DC Fundamentals.....3	_____	_____
• AUT 111 - AC Fundamentals.....3	_____	_____
• AUT 114 - Introduction to Programmable Logic Controllers.....3	_____	_____
• AUT 121 - Elements of Industrial Control.....3	_____	_____
• AUT 122 - Elements of Industrial Control Lab.....2	_____	_____
• AUT 130 - Fundamentals of Industrial Hydraulics and Pneumatics.....3	_____	_____
• AUT 138 - Principles of Industrial Mechanics.....3	_____	_____
• AUT 139 – Introduction to Robotic Programming3	_____	_____
• AUT 150 - Introduction to Machine Shop I.....3	_____	_____
• AUT 234 - Industrial Motor Controls I.....3	_____	_____
• ELT 110 – Wiring Methods.....3	_____	_____
• ORI 101 - Orientation to College.....1	_____	_____
Total Hours Required for Degree:.....28		

NOTICE(s): For the short-term certificate in Automotive Manufacturing Technology, the student must complete 28 credit hours from the courses listed above. All courses must be approved by the advisor. Admission Requirement: High school diploma or GED.

AUTOMOTIVE SERVICE TECHNOLOGY CERTIFICATE

Advisor – East Broad Campus: Harold Waddell, Automotive Services Technology Building (256.549.8622)
hwaddell@gadsdenstate.edu

	STUDENT PROGRESS	
	<u>Grade</u>	<u>Term Completed</u>
Area I—Written Composition: 3		
• COM 100 - Introductory Technical English I OR		
ENG 101 - English Composition I..... 3	_____	_____
Area II—Humanities and Fine Arts: 0		
Area III—Natural Science or Mathematics: 3		
• MAH 101 - Introductory Mathematics I OR		
MTH 100 - Intermediate College Algebra OR		
numerically higher 3	_____	_____
Area IV—History, Social and Behavioral Sciences: 0		
Area V—Technical Courses:54		
• AUM 101 - Fundamentals of Automotive Technology..... 3	_____	_____
• * AUM 112 - Electrical Fundamentals..... 3	_____	_____
• * AUM 121 - Braking Systems 3	_____	_____
• * AUM 122 - Steering and Suspension 3	_____	_____
• * AUM 124 - Automotive Engines 3	_____	_____
• * AUM 130 - Drive Train and Axles 3	_____	_____
• AUM 133 - Motor Vehicle Air Conditioning 3	_____	_____
• * AUM 162 - Electrical and Electronic Systems..... 3	_____	_____
• AUM 181 - Special Topics..... 1	_____	_____
• AUM 182 - Special Topics..... 2	_____	_____
• AUM 183 - Special Topics..... 2	_____	_____
• AUM 212 - Advanced Electrical and Electronic Systems..... 3	_____	_____
• AUM 220 - Advanced Automotive Engines..... 3	_____	_____
• AUM 224 – Manual Transmission and Transaxle..... 3	_____	_____
• * AUM 230 - Auto Transmission and Transaxle 3	_____	_____
• * AUM 239 - Engine Performance..... 3	_____	_____
• * AUM 244 - Engine Performance II..... 3	_____	_____
• AUM 246 - Automotive Emissions 3	_____	_____
• AUM 281 - Special Topics..... 3	_____	_____
• DPT 100 - Introductory Computer Skills I OR		
CIS 146 - Microcomputer Applications 3	_____	_____
• * ORT 100 - Orientation for Career Students..... 1	_____	_____
• SPC 103 - Oral Communication Skills OR		
SPH 106 - Fundamentals of Oral Communication 3	_____	_____
*Required Courses		
Total Hours Required for Certificate: 60		

NOTICE(s): For the certificate in Automotive Service Technology, the student must complete a minimum of 60 credit hours – 54 in technical courses and 6 in general education courses – all of which must be approved by the advisor. Required courses may vary to provide options and to meet student needs. Courses will be selected from those listed above. Admission Requirement: Student must be age 17 or older.

This program is offered at the East Broad Campus only.

AUTOMOTIVE SERVICE TECHNOLOGY SHORT-TERM CERTIFICATE

Advisor – East Broad Campus: Harold Waddell, Automotive Services Technology Building (256.549.8622)
hwaddell@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Required Technical Courses:		
• AUM 101 - Fundamentals of Automotive Technology..... 3	_____	_____
• AUM 112 - Electrical Fundamentals..... 3	_____	_____
• AUM 121 - Braking Systems..... 3	_____	_____
• AUM 122 - Steering and Suspension..... 3	_____	_____
• AUM 124 - Automotive Engines..... 3	_____	_____
• AUM 130 - Drive Train and Axles 3	_____	_____
• AUM 182 - Special Topics..... 2	_____	_____
• AUM 220 – Advanced Automotive Engines 3	_____	_____
• ORT 100 - Orientation for Career Students..... 1	_____	_____
Total Hours Required for Certificate: 24		

NOTICE(s): For the short-term certificate in Automotive Service Technology, the student must complete 24 credit hours. All courses must be approved by the advisor. Admission Requirement: The student must be age 17 or older.

This program is offered at the East Broad Campus only.

CARPENTRY-ADVANCED CARPENTRY SHORT-TERM CERTIFICATE

Advisor – Valley Street Campus: Heath McDaniel, Carpentry Building (256.549.8675) hmcdaniel@gadsdenstate.edu

	STUDENT PROGRESS	
	<u>Grade</u>	<u>Term Completed</u>
Required Technical Courses:		
• CAR 121 - Introduction to Blueprint Reading.....3	_____	_____
• CAR 132 - Interior and Exterior Finishing.....3	_____	_____
• CAR 203 – Special Projects in Carpentry3	_____	_____
OR		
• CAR 205 - Special Projects in Carpentry3	_____	_____
• CAR 224 - Floor, Wall, and Ceiling Specialties.....3	_____	_____
• CAR 226 - Metal Framing3	_____	_____
• CAR 228 - Stairs, Molding, and Trim3	_____	_____
• CAR 230 - Residential Repair and Remodeling.....3	_____	_____
• CAR 232 - Construction Project Management3	_____	_____
• ORT 100 - Orientation for Career Students.....1	_____	_____
Total Hours Required for Certificate: 25		

NOTICE(s): For the short-term certificate in Advanced Carpentry, the student must complete 25 credit hours. All courses must be approved by the advisor. Admission Requirement: The student must be age 17 or older.

This program is offered at the Valley Street Campus only.

CARPENTRY-BASIC CARPENTRY SHORT-TERM CERTIFICATE

Advisor – Valley Street Campus: Heath McDaniel, Carpentry Building (256.549.8675) hmcdaniel@gadsdenstate.edu

	STUDENT PROGRESS	
	<u>Grade</u>	<u>Term Completed</u>
Required Courses:		
• CAR 111 - Construction Basics3	_____	_____
• CAR 112 - Floors, Walls, and Site Prep3	_____	_____
• CAR 113 - Floors, Walls, and Site Prep Lab3	_____	_____
• CAR 114 - Construction Basics Lab3	_____	_____
• CAR 122 - Concrete and Forming3	_____	_____
• CAR 123 - Concrete and Forming Lab3	_____	_____
• CAR 131 - Roof and Ceiling Systems.....3	_____	_____
• CAR 133 - Roofing and Ceiling Systems Lab3	_____	_____
• ORT 100 - Orientation for Career Students.....1	_____	_____
Total Hours Required for Certificate: 25		

NOTICE(s): For the short-term certificate in Basic Carpentry, the student must complete 25 credit hours. All courses must be approved by the advisor. Admission Requirement: The student must be age 17 or older.

This program is offered at the Valley Street Campus only.

CHILD DEVELOPMENT A.A.S.

Advisors - Ayers Campus: Susan Lindblom (256.835.5429) slindblom@gadsdenstate.edu;

Wallace Drive Campus: Gwen Ford (256.549.8335) gford@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition: 3		
• ENG 101 - English Composition I..... 3	_____	_____
Area II – Humanities and Fine Arts:.....3		
• ART 100 - Art Appreciation OR		
MUS 101 - Music Appreciation OR		
MUS 115 - Fundamentals of Music..... 3	_____	_____
Area III – Natural Sciences and Mathematics: 7		
• BIO 103 - Principles of Biology I OR Science elective..... 4	_____	_____
• MTH 100 - Intermediate College Algebra OR		
MTH 116 - Mathematical Applications OR		
MTH 131 - Mathematics in General Education I..... 3	_____	_____
Area IV – History, Social and Behavioral Sciences: 6		
• PSY 200 - General Psychology..... 3	_____	_____
• History 3	_____	_____
Area V – Professional, Major and Electives: 47		
• CHD 100 - Introduction to Early Care Education of Children 3	_____	_____
• CHD 201 - Child Growth and Development Principles..... 3	_____	_____
• CHD 202 - Children's Creative Experiences..... 3	_____	_____
• CHD 203 - Children's Literature and Language Development ... 3	_____	_____
• CHD 204 - Methods and Materials for Teaching Children 3	_____	_____
• CHD 206 - Children's Health and Safety..... 3	_____	_____
• CHD 208 - Administration of Child Development Programs..... 3	_____	_____
• CHD 209 - Infant and Toddler Education Programs..... 3	_____	_____
• CHD 210 - Educating Exceptional Young Children 3	_____	_____
• CHD 214 - Families and Communities (Recommended) OR		
SOC 200 - Introduction to Sociology 3	_____	_____
• CHD 215 - Supervised Practical Experience in		
Child Development (Instructor Approval)..... 3	_____	_____
• CHD 217 - Math and Science for Young Children 3	_____	_____
• CIS 146 - Microcomputer Applications 3	_____	_____
• ORI 101 - Orientation to College..... 1	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____
Choose 4 hours from the following electives:		
• CHD 205 - Program Planning for Educating Young Children..... 3	_____	_____
• CHD 211A-F - Child Development Seminar..... 1	_____	_____
• CHD 212A-F - Special Topics in Child Development..... 2	_____	_____
• CHD 220 - Parenting Skills..... 3	_____	_____
• HED 224 - Management in Family Living 3	_____	_____
• PSY 210 - Human Growth and Development..... 3	_____	_____
• SPA 101 - Introductory Spanish 4	_____	_____
• SPA 102 - Introductory Spanish II 4	_____	_____
Total Hours Required for Degree:.....66		

CHILD DEVELOPMENT SHORT-TERM CERTIFICATE

Advisors - Ayers Campus: Susan Lindblom (256.835.5429) slindblom@gadsdenstate.edu;

Wallace Drive Campus: Gwen Ford (256.549.8335) gford@gadsdenstate.edu

	STUDENT PROGRESS	
	<u>Grade</u>	<u>Term Completed</u>
Required Course:		
• CHD 100 - Introduction to Early Care Education of Children3	_____	_____
• CHD 201 - Child Growth and Development Principles3	_____	_____
• CHD 204 - Methods and Materials for Teaching Children3	_____	_____
• CHD 215 - Supervised Practical Experience in Child Development..... 3	_____	_____
• ORI 101 - Orientation to College (Required)1	_____	_____
 Choose 14 hours from the following courses:		
• CHD 202 - Children’s Creative Experiences3	_____	_____
• CHD 203 - Children’s Literature and Language Development....3	_____	_____
• CHD 205 - Program Planning for Educating Young Children3	_____	_____
• CHD 206 - Children's Health and Safety3	_____	_____
• CHD 208 - Administration of Child Development Programs3	_____	_____
• CHD 209 - Infant and Toddler Education Programs3	_____	_____
• CHD 210 - Educating Exceptional Young Children.....3	_____	_____
• CHD 211A-F - Child Development Seminar1	_____	_____
• CHD 212A-F - Special Topics in Child Development2	_____	_____
• CHD 214 - Families and Communities3	_____	_____
• CHD 217 - Math and Science for Young Children.....3	_____	_____
• CHD 220 - Parenting Skills3	_____	_____
Total Hours Required for Certificate:27		

CIVIL ENGINEERING TECHNOLOGY A.A.S.

Advisor – East Broad Campus: Dave Hyatt, Bevill Center (256.549.8624) dhyatt@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I — Written Composition: 3		
• ENG 101 - English Composition I 3	_____	_____
Area II — Humanities and Fine Arts: 3		
• Humanities and Fine Arts Elective** 3	_____	_____
Area III — Natural Science or Mathematics: 6		
• INT 104 - Principles of Technology 3	_____	_____
• MTH 100 - Intermediate College Algebra OR numerically higher 3	_____	_____
Area IV—History, Social and Behavioral Science:.....3		
• Economics, Geography, History, Political Science, Psychology, or Sociology 3	_____	_____
• ORI 101 - Orientation to College 1	_____	_____
Area V — Technical Courses:22		
Courses listed below are required.		
• CET 100 - Engineering Blueprints 3	_____	_____
• CET 101 - Introduction to Engineering Technology 3	_____	_____
• CET 215 - Statics 3	_____	_____
• CET 217 - Strength of Materials..... 3	_____	_____
• MDT 105 - Introduction to Computer-Aided Design (CAD) 3	_____	_____
• MDT 146 - AutoCAD CADD 3	_____	_____
• MDT 147 - Inventor CADD 3	_____	_____
• ORI 101 - Orientation to College 1	_____	_____
Additional Coursework:.....39		
• CET 105 - Introduction to Microstation 3	_____	_____
• * CET 111 - Fundamentals of Surveying 3	_____	_____
• * CET 112 - Intermediate Surveying 3	_____	_____
• CET 121 - Engineering Materials..... 3	_____	_____
• * CET 131 - Highway Design and Construction 3	_____	_____
• CET 181 - Special Topics in Civil Engineering Technology OR CET 183 - Special Topics in Civil Engineering Technology..... 3	_____	_____
• CET 213 - Topographical Surveying and Drawing 3	_____	_____

CIVIL ENGINEERING TECHNOLOGY A.A.S. continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
• * CET 214 - Hydraulics..... 3	_____	_____
• CET 216 - Advanced Surveying..... 3	_____	_____
• CET 221 - Construction Equipment..... 3	_____	_____
• CET 222 - Residential Land Development..... 3	_____	_____
• CET 223 - Site Planning and Development..... 3	_____	_____
• CET 240 - Geographic Information Systems..... 3	_____	_____
• CET 281 - Special Topics in Civil Engineering Technology..... 3	_____	_____
• CET 281A-H - Special Topics in Civil Engineering Technology 3	_____	_____
• CET 284 Cooperative Education..... 1-3	_____	_____
• CIS 146 - Microcomputer Applications 3	_____	_____
• MDT 122 – Architectural Drawing 3	_____	_____
• SPH 106 - Fundamentals of Oral Communication..... 3	_____	_____

***Required Courses**

Total Hours Required for Degree: 76

NOTICE(s): For the A.A.S. Degree in the Civil Engineering Technology Specialty, the student must complete a minimum of 76 credit hours—a minimum of 61 in technical courses and a minimum of 15 in general education courses—all of which must be approved by the advisor. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student’s major advisor. Technical courses may vary to meet student needs and to provide options. Admission Requirement: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

This program is offered at the East Broad Campus only.

****Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

CIVIL ENGINEERING TECHNOLOGY CERTIFICATE

Advisor – East Broad Campus: Dave Hyatt, Bevill Center (256.549.8624) dhyatt@gadsdenstate.edu

STUDENT PROGRESS		
	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition:		
3		
• ENG 101 - English Composition I.....	3	_____
Area II – Humanities and Fine Arts:.....		
0		
Area III – Natural Science or Mathematics:.....		
3		
• MTH 100 - Intermediate College Algebra OR		
numerically higher.....	3	_____
Area IV – History, Social and Behavioral Sciences:.....		
0		
Area V – Technical Courses:		
37		
• * CET 100 - Engineering Blueprints.....	3	_____
• * CET 101 - Introduction to Engineering Technology.....	3	_____
• * CET 111 - Fundamentals of Surveying.....	3	_____
• * CET 112 - Intermediate Surveying.....	3	_____
• * MDT 105 - Introduction to Computer-Aided Design (CAD).....	3	_____
• * ORI 101 - Orientation to College.....	1	_____
• CET Electives.....	21	_____
• CIS 146 - Microcomputer Applications.....	3	_____
• SPH 106 - Fundamentals of Oral Communication.....	3	_____
*Required Courses		
Total Hours Required for Certificate.....		
43		

NOTICE(s): For the certificate in Civil Engineering Technology, Civil Engineering Technology Specialty, the student must complete 43 hours - 6 general education hours and 37 technical hours – all of which must be approved by the advisor. Technical courses, which may vary to meet student needs and to provide options, must be selected from those listed above. Admission Requirement: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

This program is offered at the East Broad Campus only.

CIVIL ENGINEERING TECHNOLOGY SHORT-TERM CERTIFICATE

Advisor – East Broad Campus: Dave Hyatt, Bevill Center (256.549.8624) dhyatt@gadsdenstate.edu

STUDENT PROGRESS

Grade Term Completed

Required Courses:

• ORI 101 - Orientation to College.....	1	_____	_____
• CET 100 - Engineering Blueprints.....	3	_____	_____
• CET 101 - Introduction to Engineering Technology.....	3	_____	_____
• CET 111 - Fundamentals of Surveying.....	3	_____	_____
• CET 112 - Intermediate Surveying.....	3	_____	_____
• CET 214 - Hydraulics.....	3	_____	_____
• MDT 105 - Introduction to Computer-Aided Design (CAD).....	3	_____	_____
• Approved Electives.....	6	_____	_____

Total Hours Required for Degree:.....25

NOTICE(s): For the short-term certificate in Civil Engineering, the student must complete all of the credit hours listed above—all of which must be approved by the advisor. Required courses may vary to provide options and to meet student needs. Courses will be selected from those listed above. Admission Requirement: High school diploma or GED

This program is offered at the East Broad Campus only.

COMPUTER SCIENCE TECHNOLOGY - NETWORK ADMINISTRATION A.A.S.

Advisor – Wallace Drive Campus: Frank Cornutt (256.549.8253) fcornutt@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition: 6		
• ENG 101 - English Composition I..... 3	_____	_____
• ENG 102 - English Composition II 3	_____	_____
Area II - Humanities and Fine Arts: 3		
• Humanities OR Fine Arts* 3	_____	_____
Area III – Natural Sciences and Mathematics: 6		
• MTH Electives 6 (Choose two courses from MTH 100, 112, 113, 120, 125, 126)	_____	_____
Area IV – History, Social and Behavioral Sciences: 6		
• ECO 231 - Principles of Macroeconomics 3	_____	_____
• ECO 232 - Principles of Microeconomics 3	_____	_____
Area V – Professional, Major and Electives: 50		
(Advisor Approval Required)		
• CIS 146 - Microcomputer Applications OR Higher CIS elective . 3	_____	_____
• CIS 201 - Introduction to Computer Programming Concepts 3	_____	_____
• CIS 212 - Visual BASIC Programming 3	_____	_____
• CIS 268 - Software Support 3	_____	_____
• CIS 165A - Network Lab (Corequisite) 1	_____	_____
• CIS 269 - Hardware Support 3	_____	_____
• CIS 165B - Network Lab (Corequisite)..... 1	_____	_____
• CIS 199 - Network Communications 3	_____	_____
CISCO Network Administration curriculum offered ONLY at Wallace Drive Campus		
• CIS 270 - Cisco CCNA I 3	_____	_____
• CIS 271 - Cisco CCNA II 3	_____	_____
• CIS 272 - Cisco CCNA III 3	_____	_____
• CIS 165E - Network Lab (Corequisite)..... 1	_____	_____
• CIS 273 - Cisco CCNA IV 3	_____	_____
• CIS 276 - Server Administration 3	_____	_____
• CIS 274A - Advanced Networking Lab (Corequisite)..... 1	_____	_____
• CIS 280 – Network Security 3	_____	_____
• CIS 171 - Linux I 3	_____	_____
• CIS 172 - Linux II 3	_____	_____
• ORI 101 - Orientation to College..... 1	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____
Total Hours Required for Degree: 71		

*Note: Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

COMPUTER SCIENCE TECHNOLOGY A.A.S.

Advisors – Ayers Campus: Tony Cobb (256.835.5422) tcobb@gadsdenstate.edu;
 Paulinus Ozor-Ilo (256.835.5464) pozorilo@gadsdenstate.edu; Donna Wood (256.835.5421) dwood@gadsdenstate.edu
Wallace Drive Campus: Billa Burger (256.549.8297) bburger@gadsdenstate.edu; Sheila Lancaster (256.549.8359)
slancaster@gadsdenstate.edu; Tim Moore (256.549.8304) tmoore@gadsdenstate.edu

	STUDENT PROGRESS	
	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition:		
• ENG 101 - English Composition I.....	3	_____
• ENG 102 - English Composition II.....	3	_____
Area II - Humanities and Fine Arts:		
• Humanities OR Fine Arts*.....	3	_____
Area III – Natural Sciences and Mathematics:		
• MTH Electives	6	_____
(Choose two courses from MTH 100, 112, 113, 120, 125, 126)		
Area IV – History, Social and Behavioral Sciences:.....		
• ECO 231 - Principles of Macroeconomics.....	3	_____
• ECO 232 - Principles of Microeconomics.....	3	_____
Area V – Professional, Major and Electives:		
• BUS 241 - Principles of Accounting I.....	3	_____
• BUS 242 - Principles of Accounting II.....	3	_____
• BUS 271 - Business Statistics I.....	3	_____
• CIS 146 - Microcomputer Applications or higher CIS elective.....	3	_____
• CIS 147 - Advanced Micro Applications.....	3	_____
• CIS 199 - Network Communications OR		
CIS 270 - Cisco CCNA I	3	_____
• CIS 201 - Introduction to Computer Programming Concepts.....	3	_____
• CIS 207 - Web Development.....	3	_____
• CIS 208 - Web Authoring Software.....	3	_____
• CIS 209 - Advanced Web Development OR		
CIS 222 - Database Management Systems.....	3	_____
• CIS 212 - Visual BASIC Programming.....	3	_____
• CIS 213 - Advanced Visual BASIC Programming.....	3	_____
• CIS 268 - Software Support.....	3	_____
CIS 165A - Network Lab (Corequisite).....	1	_____
• CIS 269 - Hardware Support.....	3	_____
CIS 165B - Network Lab (Corequisite).....	1	_____
• CIS Approved Elective	3	_____
• ORI 101 - Orientation to College.....	1	_____
• SPH 106 - Fundamentals of Oral Communication.....	3	_____
Total Hours Required for Degree:.....		
		72

*Note: Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

COMPUTER SCIENCE TECHNOLOGY CERTIFICATE

Advisors – Ayers Campus: Tony Cobb (256.835.5422) tcobb@gadsdenstate.edu;
 Paulinus Ozor-Ilo (256.835.5464) pozorilo@gadsdenstate.edu; Donna Wood (256.835.5421) dwood@gadsdenstate.edu
Wallace Drive Campus: Billa Burger (256.549.8297) bburger@gadsdenstate.edu;
 Frank Cornutt (256.549.8253) fcornutt@gadsdenstate.edu; Sheila Lancaster (256.549.8359) slancaster@gadsdenstate.edu; Tim Moore (256.549.8304) tmoore@gadsdenstate.edu

STUDENT PROGRESS

	Grade	Term Completed
Area I – Written Composition:..... 3		
• ENG 101 - English Composition I 3	_____	_____
Area II – Humanities and Fine Arts: 0		
Area III – Natural Sciences and Mathematics: 3		
• MTH 100 - Intermediate College Algebra OR Higher level Math 3	_____	_____
Area IV – History, Social and Behavioral Sciences: 3		
• ECO 231 - Principles of Macroeconomics OR ECO 232 - Principles of Microeconomics..... 3	_____	_____
Area V – Business Computing Technology22-23		
• CIS 146 - Microcomputer Applications OR Higher CIS elective 3	_____	_____
• CIS 147 - Advanced Micro Applications 3	_____	_____
• CIS 113 - Spreadsheet Software Apps..... 3	_____	_____
• CIS 207 - Web Development..... 3	_____	_____
• CIS 212 - Visual BASIC Programming 3	_____	_____
• CIS 249 - Microcomputer Operating Systems OR CIS 268 – Software Support & CIS 165A Lab..... 3-4	_____	_____
• ORI 101 - Orientation to College..... 1	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____
Total Hours Required for Certificate: 31-32		
Area V – Microcomputer Repair Technology..... 22-24		
• CIS 146 - Microcomputer Applications OR Higher CIS elective 3	_____	_____
• CIS 199 - Network Communications 3	_____	_____
• CIS 263 - Computer Maintenance OR CIS 269 - Hardware Support & CIS 165B Lab 3-4	_____	_____
• CIS 249 - Microcomputer Operating Systems OR CIS 268 – Software Support & CIS 165A Lab..... 3-4	_____	_____
• CIS 211 - Principles of Information Assurance..... 3	_____	_____
• CIS 212 - Visual BASIC Programming 3	_____	_____
• ORI 101 - Orientation to College..... 1	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____
Total Hours Required for Certificate: 31-33		
Area V – Web Development Technology..... 22		
• CIS 146 - Microcomputer Applications OR Higher CIS elective 3	_____	_____
• CIS 207 - Web Development..... 3	_____	_____
• CIS 208 - Web Authoring Software 3	_____	_____
• CIS 209 - Advanced Web Development..... 3	_____	_____
• CIS 211 - Principles of Information Assurance OR CIS 280 – Network Security 3	_____	_____
• CIS 212 - Visual BASIC Programming 3	_____	_____
• ORI 101 - Orientation to College..... 1	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____
Total Hours Required for Certificate: 31		

DIESEL TECHNOLOGY CERTIFICATE

Advisor – Ayers Campus: Stephan Stuelp, Diesel Building, (256.835.5419) sstuelp@gadsdenstate.edu

STUDENT PROGRESS		
	<u>Grade</u>	<u>Term Completed</u>
Area I—Written Composition:3		
• COM 100 - Introductory Technical English I OR		
ENG 101 - English Composition I.....3	_____	_____
Area II—Humanities and Fine Arts:0		
Area III—Natural Science or Mathematics:.....3		
• MAH 101 - Introductory Mathematics I OR		
MTH 100 - Intermediate College Algebra OR		
numerically higher.....3	_____	_____
Area IV—History, Social, and Behavioral Sciences:0		
Area V—Technical Courses:19		
Courses listed below are required.		
• DEM 104 - Basic Engines.....3	_____	_____
• DEM 105 – Preventive Maintenance.....3	_____	_____
• DEM 122 - Heavy Vehicle Brakes.....3	_____	_____
• DEM 124 - Electronic Engine Systems.....3	_____	_____
• DEM 125 - Heavy Vehicle Drive Trains.....3	_____	_____
• DEM 130 - Electrical/Electronic Fundamentals.....3	_____	_____
• ORT 100 - Orientation for Career Students.....1	_____	_____
Additional Coursework:31		
• DEM 111 - Equipment Safety / Mechanical Fundamentals.....3	_____	_____
• DEM 114 - Fluid Power Components.....3	_____	_____
• DEM 119 - Bearings and Lubricants.....3	_____	_____
• DEM 123 – Pneumatics and Hydraulics.....3	_____	_____
• DEM 127 – Fuel Systems.....3	_____	_____
• DEM 128 - Heavy Vehicle Drive Train Lab.....3	_____	_____
• DEM 129 - Diesel Engine Lab.....3	_____	_____
• DEM 131 - Electrical/Electronic Fundamentals II.....3	_____	_____
• DEM 135 - Heavy Vehicle Steering and Suspension Systems.....3	_____	_____
• DEM 137 - Heating, A/C, and Refrigeration Systems.....3	_____	_____
• DEM 154 - Vehicle Maintenance & Safe Operating Practices.....3	_____	_____
• DEM 155 – Preventive Maintenance II.....3	_____	_____
• DEM 180 - Special Projects in Commercial Vehicles.....3	_____	_____
• DEM 181 – Special Topics in Electrical.....3	_____	_____
• DEM 182 – Special Topics in Engines.....3	_____	_____

DIESEL TECHNOLOGY CERTIFICATE continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
• DEM 183 – Special Topics in Power Train.....3	_____	_____
• DEM 184 - Special Topics in Heavy Duty Brakes, Steering, and Suspension.....3	_____	_____
• DEM 186 – Special Projects in Commercial Vehicles.....3	_____	_____
• DEM 187 - Industrial Safety.....1	_____	_____
• DEM 191 -Special Projects in Diesel Mechanics.....3	_____	_____
• DEM 192 - Co-Op Elective.....3	_____	_____
• DEM 196 - Co-Op Elective.....1	_____	_____
• DEM 196A - Co-Op Elective.....1	_____	_____
• DEM 197 - Co-Op Elective.....2	_____	_____
• DPT 100 - Introductory Computer Skills I OR CIS 146 - Microcomputer Applications.....3	_____	_____
• SPC 103 - Oral Communication Skills OR SPH 106 - Fundamentals of Oral Communication.....3	_____	_____

Total Hours Required for Certificate:.....56

NOTICE(s): For the certificate in Diesel Mechanics, the student must complete a minimum of 56 credit hours—50 in technical courses and a minimum of 6 hours in general education courses—all of which must be approved by the advisor. Required courses may vary to provide options and to meet student needs. Courses will be selected from those listed above. Admission Requirement: The student must be 17 or older.

***This program is offered at the Ayers Campus only.**

DRAFTING AND DESIGN TECHNOLOGY A.A.S.

Advisor – Ayers Campus: Barry Abernathy, Drafting Building (256.835.5442) babernathy@gadsdenstate.edu

	STUDENT PROGRESS	
	<u>Grade</u>	<u>Term Completed</u>
Area I—Written Composition:	3	
• ENG 101 - English Composition I	3	_____
Area II—Humanities and Fine Arts:	3	
• Humanities and Fine Arts Elective*	3	_____
Area III — Natural Science or Mathematics:	6	
• INT 104 - Principles of Technology.....	3	_____
• MTH 100 - Intermediate College Algebra OR numerically higher.....	3	_____
Area IV—History, Social and Behavioral Sciences:	3	
• Economics, Geography, History, Political Science, Psychology, or Sociology.....	3	_____
Area V—Technical Courses:	28	
Courses listed below are required.		
• DDT 111 - Fundamentals of Drafting and Design Technology.....	3	_____
• DDT 115 - Blueprint Reading for Machinists.....	3	_____
• DDT 116 - Blueprint Reading for Construction.....	3	_____
• DDT 124 – Basic Technical Drawing.....	3	_____
• DDT 127 - Intermediate Computer Aided Drafting and Design.....	3	_____
• DDT 128 - Intermediate Technical Drawing.....	3	_____
• DDT 220 - Advanced Technical Drawing.....	3	_____
• DDT 233 – Intermediate 3D Modeling.....	3	_____
• EET 100 - Introduction to Engineering Technologies.....	3	_____
• ORI 101 - Orientation to College.....	1	_____
Additional Coursework	30	
• CIS 146 - Microcomputer Applications.....	3	_____
• DDT 114 - Industrial Blueprint Reading.....	3	_____
• DDT 117 - Manufacturing Processes.....	3	_____
• DDT 131 - Machine Drafting Basics.....	3	_____
• DDT 132 - Architectural Drafting.....	3	_____
• DDT 133 - Basic Surveying.....	3	_____
• DDT 182 - Special Topics in Drafting and Design Technology.....	3	_____
• DDT 211 - Intermediate Machine Drafting.....	3	_____
• DDT 212 - Intermediate Architectural Drafting.....	3	_____

DRAFTING AND DESIGN TECHNOLOGY A.A.S. continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
• DDT 226 - Technical Illustration.....3	_____	_____
• DDT 231 – Advanced CAD.....3	_____	_____
• DDT 235 - Specialized CAD.....3	_____	_____
• DDT 237 - Current Topics in CAD.....3	_____	_____
• DDT 244 – Advanced 3D Modeling.....3	_____	_____
• SPH 106 - Fundamentals of Oral Communication3	_____	_____

Total Hours Required for Degree:.....73

For the A.A.S. Degree in Drafting and Design Technology, the student must complete a minimum of 73 credit hours—a minimum of 58 in technical courses and a minimum of 15 in general education courses—all of which must be approved by the advisor. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student’s major advisor. Technical courses may vary to meet student needs and to provide options. Admission Requirement: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

This program is offered at the Ayers Campus only.

***Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

DRAFTING AND DESIGN TECHNOLOGY CERTIFICATE

Advisor – Ayers Campus: Barry Abernathy, Drafting Building (256.835.5442) babernathy@gadsdenstate.edu

STUDENT PROGRESS		
	<u>Grade</u>	<u>Term Completed</u>
Area I—Written Composition:	3	
• ENG 101 - English Composition I.....	3	_____
Area II—Humanities and Fine Arts:	0	
Area III—Natural Science or Mathematics:	3	
• MTH 100 - Intermediate College Algebra OR numerically higher.....	3	_____
Area IV—History, Social and Behavioral Sciences:	0	
Area V—Technical Courses:	40	
• CIS 146 - Microcomputer Applications.....	3	_____
• * DDT 104 – Basic Computer Aided Drafting and Design.....	3	_____
• * DDT 111 – Fundamentals of Drafting and Design Technology.....	3	_____
• * DDT 115 – Blueprint Reading for Machinists.....	3	_____
• * DDT 116 – Blueprint Reading for Construction.....	3	_____
• * DDT 124 – Basic Technical Drawing.....	3	_____
• * DDT 127 – Intermediate CADD.....	3	_____
• * DDT 128 – Intermediate Technical Drawing.....	3	_____
• * DDT 220 – Advanced Technical Drawing.....	3	_____
• * DDT 233 – Intermediate 3D Modeling.....	3	_____
• * EET 100 – Introduction to Engineering Technologies.....	3	_____
• * INT 104_– Principles of Technology.....	3	_____
• * ORI 101 - Orientation to College	1	_____
• SPH 106 - Fundamentals of Oral Communication.....	3	_____
• DDT Electives.....	6	_____

***Required courses**

Total Hours Required for Certificate:.....**46**

NOTICE(s): For the certificate in Drafting and Design Technology, the student must complete at least 46 credit hours—at least 40 in technical courses and at least 6 in general education courses—all of which must be approved by the advisor. Technical courses, which may vary to meet student needs and to provide options, must be selected from those listed above. Admission Requirement: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

This program is offered at the Ayers Campus only.

DRAFTING AND DESIGN TECHNOLOGY SHORT-TERM CERTIFICATE

Advisor – Ayers Campus: Barry Abernathy, Drafting Building (256.835.5442) babernathy@gadsdenstate.edu

STUDENT PROGRESS

Grade Term Completed

Required Courses:

• DDT 104 - Basic Computer Aided Drafting and Design.....3	_____	_____
• DDT 111 - Fundamentals of Drafting and Design Technology.....3	_____	_____
• DDT 115 - Blueprint Reading for Machinists.....3	_____	_____
• DDT 116 - Blueprint Reading for Construction.....3	_____	_____
• DDT 124 - Basic Technical Drawing.....3	_____	_____
• DDT 233 - Intermediate 3D Modeling.....3	_____	_____
• DDT 235 - Specialized CAD.....3	_____	_____
• DDT 237 - Current Topics in CAD.....3	_____	_____
• EET 100 - Introduction to Engineering Technologies.....3	_____	_____
• ORI 101 - Orientation to College.....1	_____	_____

Total Hours Required for Certificate:.....28

NOTICE(s): For the short-term certificate in Drafting and Design Technology, the student must complete all of the 28 credit hours listed above— all of which must be approved by the advisor. Required courses may vary to provide options and to meet student needs. Admission Requirement: High school diploma or GED.

This program is offered at the Ayers Campus only.

ELECTRICAL TECHNOLOGY A.A.S.

Advisors – Ayers Campus: Tony Thrower, Electricity Building (256.835.5441) tthrower@gadsdenstate.edu;

East Broad Campus: Debbie Reynolds, Electrical Building (256.549.8631) dreynolds@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I — Written Composition: 3		
• ENG 101 - English Composition I 3	_____	_____
Area II — Humanities and Fine Arts: 3		
• Humanities and Fine Arts Elective** 3	_____	_____
Area III — Natural Science or Mathematics: 6		
• INT 104 - Principles of Technology 3	_____	_____
• MTH 100 - Intermediate College Algebra OR numerically higher 3	_____	_____
Area IV – History, Social and Behavioral Sciences: 3		
• Economics, Geography, History, Political Science, Psychology, or Sociology 3	_____	_____
Area V - Technical Courses:28		
Courses listed below are required.		
• ELT 110 - Wiring Methods OR EET 192 - Installation Practices 3	_____	_____
• ELT 231 - Introduction to Programmable Controllers OR INT 184 – Introduction to Programmable Logic Controllers..... 3	_____	_____
• EET 100 - Introduction to Engineering Technologies..... 3	_____	_____
• EET 109 - Electrical Blueprint Reading I 3	_____	_____
• INT 101 - DC Fundamentals OR EET 103 - DC Fundamentals 3	_____	_____
• INT 103 - AC Fundamentals OR EET 104 - AC Fundamentals 3	_____	_____
• INT 113 - Industrial Motor Control I 3	_____	_____
• INT 117 - Principles of Industrial Mechanics 3	_____	_____
• INT 118 - Fundamentals of Industrial Hydraulics and Pneumatics 3	_____	_____
• ORI 101 - Orientation to College..... 1	_____	_____
Additional Coursework: 33		
• CIS 146 - Microcomputer Applications 3	_____	_____
• * ELT 114 - Residential Wiring Methods 3	_____	_____
• * ELT 115 - Residential Wiring Methods II 3	_____	_____
• * ELT 117 - AC/DC Machines OR INT 206 - Industrial Motors I..... 3	_____	_____
• * ELT 118 - Commercial/Industrial Wiring I OR INT 158 - Industrial Wiring I..... 3	_____	_____
• * ELT 122 - Advanced AC/DC Machines OR INT 211 - Industrial Motors II..... 3	_____	_____

ELECTRICAL TECHNOLOGY A.A.S. continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
• ELT 181 - Special Topics in Electrical Technology 3	_____	_____
• ELT 182 - Special Topics in Electrical Technology 3	_____	_____
• ELT 183 - Special Topics in Electrical Technology- NCCER Certification 3	_____	_____
• ELT 192 - Practicum/Intern/Co-op 1	_____	_____
• ELT 194 - Practicum/Intern/Co-op 3	_____	_____
• ELT 206 - OSHA Safety Standards 3	_____	_____
• ELT 212 - Motor Controls II 3	_____	_____
• ELT 232 - Advanced Programmable Controllers 3	_____	_____
• ELT 234 – PLC Applications 3	_____	_____
• ELT 241 - National Electric Code 3	_____	_____
• ELT 242 - Journeyman Master Prep Exam 3	_____	_____
• ELT 244 - Conduit Bending and Installation 3	_____	_____
• ACR 111 - Principles of Refrigeration 3	_____	_____
• ACR 113 - Refrigeration Piping Practices 3	_____	_____
• ACR 126 - Commercial Heating Systems 3	_____	_____
• ACR 148 - Heat Pump Systems I 3	_____	_____
• ACR 200 - Review for Contractors Exam 3	_____	_____
• EET 114 - Concepts of Solid State Electronics 5	_____	_____
• EET 115 - Concepts of Digital Electronics 3	_____	_____
• EET 119 - Circuit Fabrication I 1	_____	_____
• EET 207 - Intro to Robotics 3	_____	_____
• EET 212 - Intro to Robotics Lab 2	_____	_____
• EET 213 - Process Control and Instrumentation 3	_____	_____
• EET 224 - Elements of Industrial Control with PLCs 3	_____	_____
• EET 229 - Elements of Industrial Control with PLCs Lab 2	_____	_____
• EET 238 - Process Control and Instrumentation Lab 2	_____	_____
• INT 126 - Preventive Maintenance 3	_____	_____
• INT 127 - Principles of Industrial Pumps and Piping Systems 3	_____	_____
• INT 134 - Principles of Industrial Maintenance Welding and Metal Cutting Techniques 3	_____	_____
• INT 139 – Introduction to Robotic Programming 3	_____	_____
• INT 253 – Industrial Robotics 3	_____	_____
• INT 254 – Robot Maintenance and Troubleshooting OR ELT 254—Robot Maintenance and Troubleshooting 3	_____	_____
• MDT 105 - Introduction to Computer-Aided Design (CAD) OR DDT 104 - Basic Computer Aided Drafting and Design 3	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____

***Required Courses**

Total Hours Required for Degree: 76

NOTICE(s): For the A.A.S. Degree in Industrial Automation Technology, Electrical Technology Specialty, the student must complete a minimum of 76 credit hours—a minimum of 61 in technical courses and a minimum of 15 in general education courses—all of which must be approved by the advisor. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student’s major advisor. Technical courses may vary to meet student needs and to provide options. Admission Requirements: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

****Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

ELECTRICAL TECHNOLOGY CERTIFICATE

Advisors – Ayers Campus: Tony Thrower, Electricity Building (256.835.5441) tthrower@gadsdenstate.edu;
East Broad Campus: Debbie Reynolds, Electrical Building (256.549.8631) dreynolds@gadsdenstate.edu

STUDENT PROGRESS		
	<u>Grade</u>	<u>Term Completed</u>
Area I—Written Composition:	3	
• ENG 101 - English Composition I.....	3	
Area II—Humanities and Fine Arts:	0	
Area III—Natural Science or Mathematics:	3	
• MTH 100 - Intermediate College Algebra OR numerically higher.....	3	
Area IV—History, Social and Behavioral Sciences:	0	
Area V—Technical Courses:	37	
Courses listed below are required:		
• CIS 146 - Microcomputer Applications.....	3	
• * ELT 110 - Wiring Methods OR EET 192 - Installation Practices	3	
• * ELT 114 - Residential Wiring Methods.....	3	
• * ELT 115 - Residential Wiring Methods II.....	3	
• * ELT 117 - AC/DC Machines OR INT 206 - Industrial Motors I.....	3	
• * ELT 118 - Commercial/Industrial Wiring I OR INT 158 - Industrial Wiring I.....	3	
• * ELT 209 - Motor Controls I OR INT 113 - Industrial Motor Control I.....	3	
• * EET 100 - Introduction to Engineering Technologies.....	3	
• * EET 109 - Electrical Blueprint Reading I.....	3	
• * INT 101 - DC Fundamentals OR EET 103 - DC Fundamentals.....	3	
• * INT 103 - AC Fundamentals OR EET 104 - AC Fundamentals.....	3	
• MDT 105 - Introduction to Computer-Aided Design (CAD) OR DDT 104 –Basic Computer-Aided Drafting and Design.....	3	
• * ORI 101 - Orientation to College.....	1	
• SPH 106 - Fundamentals of Oral Communication.....	3	
• ELT Electives.....	6	

***Required courses**

Total Hours Required for Certificate:.....**43**

NOTICE(s): For the certificate in Industrial Maintenance Technology, Electrical Technology Specialty, the student must complete at least 43 credit hours—all 37 hours in technical courses listed above and at least 6 in general education courses—all of which must be approved by the advisor. Technical courses may vary to meet student needs and to provide options. Admission Requirement: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

ELECTRICAL TECHNOLOGY SHORT-TERM CERTIFICATE

Advisors – Ayers Campus: Tony Thrower, Electricity Building (256.835.5441) tthrower@gadsdenstate.edu;

East Broad Campus: Debbie Reynolds, Electrical Building (256.549.8631) dreynolds@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Residential Electrical Apprentice:		
• ELT 110 - Wiring Methods3	_____	_____
• ELT 114 - Residential Wiring Methods3	_____	_____
• ELT 115 - Residential Wiring Methods II3	_____	_____
• ELT 181 - Special Topics in Electrical Technology OR ELT 182 - Special Topics in Electrical Technology OR ELT 241 - National Electric Code OR EET 100 - Introduction to Engineering Technologies3	_____	_____
• ELT 244 - Conduit Bending and Installation OR ELT 117 – AC/DC Machines3	_____	_____
• ELT 245 - Electrical Grounding Systems OR EET 109 - Electrical Blueprint Reading I.....3	_____	_____
• INT 101 - DC Fundamentals OR EET 103 - DC Fundamentals3	_____	_____
• INT 103 - AC Fundamentals OR EET 104 - AC Fundamentals.....3	_____	_____
• ORI 101 - Orientation to College1	_____	_____
• Total Hours Required for Certificate: 25		
Industrial Electrical Technician:		
• ELT 110 - Wiring Methods OR EET 192 - Installation Practices OR ELT 242 - Journeyman Master Prep Exam.....3	_____	_____
• ELT 117 - AC/DC Machines OR INT 206 - Industrial Motors I3	_____	_____
• ELT 118 - Commercial/Industrial Wiring I OR INT 158 - Industrial Wiring I3	_____	_____
• ELT 122 - Advanced AC/DC Machines OR ELT 212 - Motor Controls II OR ELT 231 - Introduction to Programmable Controllers OR INT 184 - Introduction to Programmable Logic Controllers3	_____	_____
• ELT 244 - Conduit Bending and Installation OR ELT 181 - Special Topics in Electrical Technology OR ELT 183 – Special topics in Electrical Technology-NCCER Cert. OR INT 126 – Preventive Maintenance3	_____	_____
• INT 101 - DC Fundamentals OR EET 103 - DC Fundamentals3	_____	_____
• INT 103 - AC Fundamentals OR EET 104 - AC Fundamentals.....3	_____	_____

ELECTRICAL TECHNOLOGY SHORT-TERM CERTIFICATE

continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
• INT 113 - Industrial Motor Control I 3	_____	_____
• ORI 101 - Orientation to College..... 1	_____	_____
Total Hours Required for Certificate: 25		

Industrial Control Technician:

• ELT 110 - Wiring Methods OR EET 192 - Installation Practices 3	_____	_____
• ELT 117 - AC/DC Machines..... 3	_____	_____
• ELT 122 - Advanced AC/DC Machines..... 3	_____	_____
• ELT 212 - Motor Controls II OR ELT 244 - Conduit Bending and Installation OR INT 126 – Preventive Maintenance OR INT 253 – Industrial Robotics..... 3	_____	_____
• ELT 231 - Introduction to Programmable Controllers..... 3	_____	_____
• ELT 232 - Advanced Programmable Controllers OR ELT 118 - Commercial/Industrial Wiring I 3	_____	_____
• INT 101 - DC Fundamentals OR EET 103 - DC Fundamentals..... 3	_____	_____
• INT 104 - Principles of Technology OR EET 104 - AC Fundamentals 3	_____	_____
• ORI 101 - Orientation to College..... 1	_____	_____
Total Hours Required for Certificate: 25		

NOTICE(s): For the short-term certificate in Residential Electrical Apprentice, Industrial Electrical Technician, or Industrial Control Technician, the student must complete 25 credit hours in technical courses—all of which must be approved by the advisor. Required courses may vary to provide options and to meet student needs. Courses will be selected from those listed above. Admission Requirement: High school diploma or GED.

ELECTRONIC ENGINEERING TECHNOLOGY GENERAL OPTION A.A.S.

Advisors – Ayers Campus: Audrey Webb, Electronics Building (256.835-5460) awebb@gadsdenstate.edu;
 Andrew Robertson, Electronics Building (256.835-5427) arobertson@gadsdenstate.edu
East Broad Campus: David Barnett, Bevill Center (256.549.8632) dbarnett@gadsdenstate.edu;
 Thomas Hartline, Bevill Center (256.549.8634) thartline@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I — Written Composition:3		
• ENG 101 - English Composition I.....3	_____	_____
Area II — Humanities and Fine Arts: 3		
• Humanities and Fine Arts Elective**3	_____	_____
Area III — Natural Science or Mathematics: 6		
• INT 104 - Principles of Technology.....3	_____	_____
• MTH 100 - Intermediate College Algebra OR numerically higher3	_____	_____
Area IV — History, Social and Behavioral Sciences:3		
• Economics, Geography, History, Political Science, Psychology, or Sociology3	_____	_____
Area V — Technical Courses:16		
Required Courses for all options of Electronics Engineering Technology		
• EET 100 - Introduction to Engineering Technologies3	_____	_____
• EET 103 - DC Fundamentals OR INT 101 - DC Fundamentals.....3	_____	_____
• EET 104 - AC Fundamentals OR INT 103 - AC Fundamentals.....3	_____	_____
• EET 109 - Electrical Blueprint Reading I3	_____	_____
• EET 225 - Electronics Communications3	_____	_____
• ORI 101 - Orientation to College1	_____	_____
Additional Coursework:.....45		
• CIS 146 - Microcomputer Applications.....3	_____	_____
• * EET 114 - Concepts of Solid State Electronics.....5	_____	_____
• * EET 115 - Concepts of Digital Electronics5	_____	_____
• * EET 116 - Concepts of Electronic Circuits5	_____	_____
• * EET 119 - Circuit Fabrication I.....1	_____	_____
• EET 192 - Installation Practices3	_____	_____

ELECTRONIC ENGINEERING TECHNOLOGY GENERAL OPTION A.A.S. continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
• EET 195 - Selected Topics in EET OR		
• EET 196 - Selected Topics in EET OR		
• EET 197 - Selected Topics in EET1-3	_____	_____
• EET 207 - Intro to Robotics.....3	_____	_____
• EET 208 - Fiber Optics3	_____	_____
• EET 212 - Intro to Robotics Lab2	_____	_____
• EET 213 - Process Control and Instrumentation3	_____	_____
• EET 224 - Elements of Industrial Controls with PLCs.....3	_____	_____
• EET 229 - Elements of Industrial Controls with PLCs Lab2	_____	_____
• EET 230 - Communications Basics3	_____	_____
• EET 231 - Communications Basics Laboratory1	_____	_____
• EET 238 - Process Control and Instrumentation Lab.....2	_____	_____
• EET 249 – CET Preparation3	_____	_____
• EET 252 - Electronic Service Lab.....1	_____	_____
• EET 254 - Microcomputer Systems Basic I3	_____	_____
• EET 255 - Microcomputer Systems Basic I Lab.....2	_____	_____
• EET 256 - Microcomputer Systems Advanced I.....3	_____	_____
• EET 257 - Microcomputer Systems Advanced I Lab2	_____	_____
• * EET 260 - Microprocessors Interfacing3	_____	_____
• * EET 261 - Microprocessors Interfacing Laboratory1	_____	_____
• EET 262 - Industrial Automation Project.....3	_____	_____
• EET 276 - Elements of Industrial Controls with PLCs II.....3	_____	_____
• EET 277 - Elements of Industrial Controls with PLCs II Lab2	_____	_____
• EET 281 - Special Topics in Electronic Engineering Technology3	_____	_____
• EET 290 - Electronics Project.....3	_____	_____
• EET 294 - Co-Op Education.....3	_____	_____
• DDT 104 - Basic Computer Aided Drafting and Design OR		
MDT 105 - Introduction to Computer-Aided Design (CAD).....3	_____	_____
• SPH 106 - Fundamentals of Oral Communication.....3	_____	_____

***Required Courses**

Total Hours Required for Degree:.....76

NOTICE(s): For the A.A.S. Degree in Electronic Engineering Technology, General Option, the student must complete a minimum of 76 credit hours – a minimum of 61 in technical courses and a minimum of 15 in general education courses – all of which must be approved by the advisor. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student’s major advisor. Technical courses may vary to meet student need and to provide options. Admission Requirement: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

****Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

ELECTRONIC ENGINEERING TECHNOLOGY INDUSTRIAL ELECTRONICS SPECIALIZATION A.A.S.

Advisors – Ayers Campus: Audrey Webb, Electronics Building (256.835.5460) awebb@gadsdenstate.edu;

Andrew Robertson, Electronics Building (256.835-5427) arobertson@gadsdenstate.edu

East Broad Campus: David Barnett, Bevill Center (256.549.8632) dbarnett@gadsdenstate.edu;

Thomas Hartline, Bevill Center (256.549.8634) thartline@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I — Written Composition: 3		
• ENG 101 - English Composition I 3	_____	_____
Area II — Humanities and Fine Arts: 3		
• Humanities and Fine Arts Elective** 3	_____	_____
Area III — Natural Science or Mathematics: 6		
• INT 104 - Principles of Technology 3	_____	_____
• MTH 100 - Intermediate College Algebra OR numerically higher 3	_____	_____
Area IV — History, Social and Behavioral Sciences: 3		
• Economics, Geography, History, Political Science, Psychology, or Sociology 3	_____	_____
Area V — Technical Core Courses:16		
Required Courses for all options of Electronic Engineering Technology		
• EET 100 - Introduction to Engineering Technologies 3	_____	_____
• EET 103 - DC Fundamentals OR INT 101 - DC Fundamentals 3	_____	_____
• EET 104 - AC Fundamentals OR INT 103 - AC Fundamentals 3	_____	_____
• EET 109 - Electrical Blueprint Reading I 3	_____	_____
• EET 225 - Electronics Communications 3	_____	_____
• ORI 101 - Orientation to College 1	_____	_____
Additional Coursework:.....45		
• CIS 146 - Microcomputer Applications 3	_____	_____
• * EET 114 - Concepts of Solid State Electronics 5	_____	_____
• * EET 115 - Concepts of Digital Electronics 5	_____	_____
• * EET 116 - Concepts of Electronic Circuits 5	_____	_____
• * EET 119 - Circuit Fabrication I 1	_____	_____
• EET 192 - Installation Practices 3	_____	_____
• EET 195 - Selected Topics in EET OR		
• EET 196 - Selected Topics in EET OR		
• EET 197 - Selected Topics in EET 1-3	_____	_____

ELECTRONIC ENGINEERING TECHNOLOGY INDUSTRIAL ELECTRONICS SPECIALIZATION A.A.S. continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
• EET 207 - Intro to Robotics 3	_____	_____
• EET 208 - Fiber Optics..... 3	_____	_____
• EET 212 - Intro to Robotics Lab 2	_____	_____
• * EET 213 - Process Control and Instrumentation 3	_____	_____
• * EET 224 - Elements of Industrial Control with PLCs..... 3	_____	_____
• * EET 229 - Elements of Industrial Control with PLCs Lab 2	_____	_____
• * EET 238 - Process Control and Instrumentation Lab 2	_____	_____
• EET 249 – CET Preparation 3	_____	_____
• EET 260 - Microprocessors Interfacing 3	_____	_____
• EET 261 - Microprocessors Interfacing Laboratory 1	_____	_____
• EET 262 - Industrial Automation Project 3	_____	_____
• EET 276 - Elements of Industrial Control with PLCs II..... 3	_____	_____
• EET 277 - Elements of Industrial Control with PLCs II Lab 2	_____	_____
• ELT 118 - Commercial/Industrial Wiring I..... 3	_____	_____
• ELT 122 - Advanced AC/DC Machines 3	_____	_____
• INT 117 - Principles of Industrial Mechanics 3	_____	_____
• INT 118 - Fundamentals of Industrial Hydraulics and Pneumatics 3	_____	_____
• DDT 104 - Basic Computer Aided Drafting and Design OR MDT 105 - Introduction to Computer-Aided Design (CAD) 3	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____

***Required courses for Electronic Engineering Technology, Industrial Electronics Specialization**

Total Hours Required for Degree:..... 76

NOTICE(s): For the A.A.S. Degree in Electronics Engineering Technology, Industrial Electronics Specialization, the student must complete a minimum of 76 credit hours – a minimum of 61 in technical courses and a minimum of 15 in general education courses – all of which must be approved by the advisor. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student’s major advisor. Technical courses may vary to meet student needs and to provide options. Admission Requirement: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

****Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

ELECTRONIC ENGINEERING TECHNOLOGY CERTIFICATE

Advisors – Ayers Campus: Audrey Webb, Electronics Building (256.835.5460) awebb@gadsdenstate.edu;

Andrew Robertson, Electronics Building (256.835-5427) arobertson@gadsdenstate.edu

East Broad Campus: David Barnett, Bevill Center (256.549.8632) dbarnett@gadsdenstate.edu;

Thomas Hartline, Bevill Center(256.549.8634) thartline@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition:3		
• ENG 101 - English Composition I.....3	_____	_____
Area II – Humanities and Fine Arts:0		
Area III – Natural Science or Mathematics:3		
• MTH 100 - Intermediate College Algebra OR numerically higher3	_____	_____
Area IV – History, Social and Behavioral Sciences:.....0		
Area V – Required Technical Courses:13		
• EET 100 - Introduction to Engineering Technologies3	_____	_____
• EET 103 - DC Fundamentals OR INT 101 - DC Fundamentals.....3	_____	_____
• EET 104 - AC Fundamentals OR INT 103 - AC Fundamentals.....3	_____	_____
• INT 104 - Principles of Technology3	_____	_____
• ORI 101 - Orientation to College1	_____	_____
Additional Coursework:24		
• Approved Area V Electives24	_____	_____
• CIS 146 - Microcomputer Applications.....3	_____	_____
• SPH 106 - Fundamentals of Oral Communication3	_____	_____
Total Hours Required for Certificate:.....43		

NOTICE(s): For the certificate in Electronic Engineering Technology, all options, the student must complete 6 general education hours and 37 technical hours, all of which must be approved by the student's major advisor. Admission Requirement: High school diploma or GED.

EMERGENCY MEDICAL SERVICES A.A.S.

Advisors – East Broad Campus and McClellan Center: John Hollingsworth, (256.439.6814)
 jhollingsworth@gadsdenstate.edu; Pam Talley, (256.549.8689) ptalley@gadsdenstate.edu

	STUDENT PROGRESS	
	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition:.....3-6		
• ENG 101 - English Composition I 3	_____	_____
• ENG 102 - English Composition II* 3	_____	_____
Area II – Humanities and Fine Arts:3-6		
• Fine Arts Elective* 3	_____	_____
Area III – Natural Sciences and Mathematics:11		
• BIO 201 - Human Anatomy and Physiology I OR BIO 271 - Human Gross Anatomy/Pathophysiology 4	_____	_____
• BIO 202 - Human Anatomy and Physiology II..... 4	_____	_____
• MTH 100 - Intermediate College Algebra..... 3	_____	_____
Area IV – History, Social and Behavioral Sciences: 3		
• PSY 200 - General Psychology 3	_____	_____
Area V – Professional, Major and Elective Courses:42-50		
In lieu of CIS 146, competency in basic use of computers is demonstrated by extensive use of computers as required in labs and clinicals.		
• EMS 100 - Cardiopulmonary Resuscitation I 1	_____	_____
• EMS 107 - Emergency Vehicle Operator Ambulance 1	_____	_____
• EMS 118 - Emergency Medical Technician 9	_____	_____
• EMS 119 - Emergency Medical Technician Clinical..... 1	_____	_____
• EMS 241 - Paramedic Cardiology 3	_____	_____
• EMS 242 - Paramedic Patient Assessment 2	_____	_____
• EMS 244 - Paramedic Clinical I 1	_____	_____
• EMS 245 - Paramedic Medical Emergencies 3	_____	_____
• EMS 246 - Paramedic Trauma Management..... 3	_____	_____
• EMS 247 - Paramedic Special Populations 2	_____	_____
• EMS 248 - Paramedic Clinical II 3	_____	_____
• EMS 253 - Paramedic Transition to the Workforce..... 2	_____	_____
• EMS 254 - Advanced Competencies for Paramedics..... 2	_____	_____
• EMS 255 - Paramedic Field Preceptorship 5	_____	_____
• EMS 256 - Paramedic Team Leadership 1	_____	_____
• EMS 257 - Paramedic Applied Pharmacology 2	_____	_____
• ORI 101 – Orientation to College..... 1	_____	_____
Approved Area V Electives		
• EMS 155 - Advanced Emergency Medical Technician 7	_____	_____
• EMS 156 - Advanced Emergency Medical Technician Clinical... 2	_____	_____
Total Hours Required for Degree:.....65-74		

- NOTICE(s)**
- Either BIO 201 or BIO 271 must be taken as a prerequisite for 1st semester paramedic. Limitations apply. **See Advisor**
 - BIO 271 can be substituted for BIO 201 in the degree requirements. Limitations Apply. **See Advisor**
 - MTH 100, ENG 101 plus additional four general education hours required prior to 3rd semester. **See Advisor**
 - **The EMS Program offers three separate progression tracks. Please see EMS advisor for details.**

Gadsden State awards institutional certificates in EMT, Advanced EMT and in Paramedic. The student should see an EMS advisor for details. Subject to change due to statewide standardization of Emergency Medical Services program(s). Gadsden State's EMS Program follows the Alabama Community College System Standardized Curriculum.

*See Advisor

GENERAL STUDIES A.S.

Advisors – Ayers Campus: Beth Gray, (256.835.5468) bgray@gadsdenstate.edu;
 Lila Gearhart, (256.832.1202) lgearhart@gadsdenstate.edu;
Gadsden Campuses: Matthew Burttram, (256.549.8646) mburttram@gadsdenstate.edu; Dana Davis, (256.549.8350) ddavis@gadsdenstate.edu; Kathy Gillison-Parker, (256.549.8655) kparker@gadsdenstate.edu;
McClellan Center: Cindy Greer, (256.238.9348) cgreer@gadsdenstate.edu;

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition: 6		
• ENG 101 - English Composition I..... 3	_____	_____
• ENG 102 - English Composition II..... 3	_____	_____
Area II – Humanities and Fine Arts¹: 12		
• Literature (A sequence in Literature OR History is required) ... 3	_____	_____
• Fine Arts* 3	_____	_____
• Literature OR Humanities/Fine Arts Electives..... 6	_____	_____
Area III – Natural Sciences and Mathematics¹: 11		
• MTH 112 - Precalculus Algebra OR Higher level Math 3	_____	_____
• Natural Science and Lab..... 8	_____	_____
Area IV – History, Social and Behavioral Sciences¹: 12		
• History (A sequence in Literature OR History is required) 3	_____	_____
• History, Social, or Behavioral Science 3	_____	_____
• Social and Behavioral Sciences 6	_____	_____
Area V – Pre-Professional, Pre-Major and Electives¹: 19-23		
• ORI 101 - Orientation to College..... 1	_____	_____
• CIS 146 - Microcomputer Applications OR Higher CIS elective 3	_____	_____
• SPH 106 - Fundamentals of Oral Communication (elective)..... 3	_____	_____
• Electives 15-19	_____	_____
Total Hours Required for Degree: 60-64		

NOTICE(s): ¹Students should 1) consult with an advisor and 2) refer to the Statewide Transfer and Articulation Reporting Systems (STARS) located at <http://stars.troy.edu/> and the degree requirements of the intended transfer institution.

***Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

HEALTH INFORMATION TECHNOLOGY MANAGEMENT SHORT-TERM CERTIFICATE

Advisors – Ayers Campus: Fay Scott (256.439.6876) fscott@gadsdenstate.edu

Wallace Drive Campus: Fay Scott (256.439.6876) fscott@gadsdenstate.edu;

Larrhea Sims (256.439.6904) lsims@gadsdenstate.edu

Student Progress

Grade Term Completed

Area V—Professional, Major and Elective Courses:25

• BIO 120 - Medical Terminology	3	_____	_____
• HIT 134 - HIT Legal and Ethical Issues	3	_____	_____
• HIT 151 - Health Data Content and Structure	3	_____	_____
• HIT 153 - Health Care Delivery Systems.....	2	_____	_____
• HIT 230 - Medical Coding Systems I	3	_____	_____
• HIT 231 - Medical Coding Skills Laboratory.....	1	_____	_____
• HIT 254 - Organization Improvement	3	_____	_____
• HIT 295 - Special Topics in HIT III	3	_____	_____
• OAD 217 - Office Management.....	3	_____	_____
• ORI 101 - Orientation to College	1	_____	_____

Total Hours Required for Certificate:.....25

HUMAN SERVICES A.A.S.

Advisor – Wallace Drive Campus: Tina Whittington (256.549.8476) twhittington@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition:..... 3		
• ENG 101 - English Composition I 3	_____	_____
Area II - Humanities and Fine Arts: 3		
• Humanities OR Fine Arts* 3	_____	_____
Area III – Natural Sciences and Mathematics: 7		
• MTH 116 - Mathematical Applications OR Higher level Math .. 3	_____	_____
• Natural Science and Lab 4	_____	_____
Area IV – History, Social and Behavioral Sciences: 6		
• PSY 200 - General Psychology 3	_____	_____
• SOC 200 - Introduction to Sociology..... 3	_____	_____
Area V – Professional, Major and Electives: 37		
• CIS 146 - Microcomputer Applications 3	_____	_____
• HUS 101 - Introduction to Human Services..... 3	_____	_____
• HUS 102 - Introduction to Casework..... 3	_____	_____
• HUS 112 - Activity Therapy..... 3	_____	_____
• HUS 211 - Introduction: Alcohol and Drug Prevention and Abuse..... 3	_____	_____
• HUS 222 - Group Counseling Techniques 3	_____	_____
• HUS 223 - Guidance and Counseling Techniques..... 3	_____	_____
• HUS 224 - Clinical Internship I 3	_____	_____
• HUS 225 - Clinical Internship II 3	_____	_____
• HUS 226 - Clinical Internship III 3	_____	_____
• HED 231 - First Aid..... 3	_____	_____
• ORI 101 - Orientation to College 1	_____	_____
• SPH 106—Fundamentals of Oral Communication..... 3	_____	_____
Technical Specialty: 15		
• HUS 110 - Special Education Issues and Interventions..... 3	_____	_____
• HUS 113 - Group Dynamics 3	_____	_____
• HUS 131 - Problems of Children and Youth..... 3	_____	_____
• HUS 133 - Geriatrics 3	_____	_____
• HUS 138 - Counseling from a Cultural Perspective OR HUS 212 - Prevention Resources in Drug and Alcohol Abuse.... 3	_____	_____
• HUS 214 - Working with the Chemically Dependent..... 3	_____	_____
• HUS 215 - Working with the Family of the Chemically Dependent 3	_____	_____
• HUS 216 - Relapse Prevention..... 3	_____	_____
• HUS 217 - Alcoholism and Drug Abuse Seminar..... 3	_____	_____
Total Hours Required for Degree:..... 71		

***Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

INDUSTRIAL AUTOMATION TECHNOLOGY A.A.S.

Advisors – Ayers Campus: Tony Thrower, Electrical Building (256.835.5441) tthrower@gadsdenstate.edu

East Broad Campus: Jack Mayfield, Industrial Automation Building (256.549.8637) jmayfield@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I — Written Composition: 3		
• ENG 101 - English Composition I..... 3	_____	_____
Area II — Humanities and Fine Arts: 3		
• Humanities and Fine Arts Elective** 3	_____	_____
Area III — Natural Science or Mathematics: 6		
• INT 104 - Principles of Technology..... 3	_____	_____
• MTH 100 - Intermediate College Algebra OR numerically higher 3	_____	_____
Area IV — History, Social and Behavioral Sciences: 3		
• Economics, Geography, History, Political Science, Psychology, or Sociology 3	_____	_____
Area V — Technical Courses: 28		
Courses listed below are required.		
• EET 100 - Introduction to Engineering Technologies 3	_____	_____
• EET 109 - Electrical Blueprint Reading I 3	_____	_____
• ELT 110 - Wiring Methods..... 3	_____	_____
• INT 101 - DC Fundamentals OR EET 103 - DC Fundamentals 3	_____	_____
• INT 103 - AC Fundamentals OR EET 104 - AC Fundamentals 3	_____	_____
• INT 113 - Industrial Motor Control I..... 3	_____	_____
• INT 117 - Principles of Industrial Mechanics..... 3	_____	_____
• INT 118 - Fundamentals of Industrial Hydraulics and Pneumatics..... 3	_____	_____
• INT 184 - Introduction to Programmable Logic Controllers OR ELT 231 - Introduction to Programmable Controllers..... 3	_____	_____
• ORI 101 - Orientation to College..... 1	_____	_____
Additional Coursework: 33		
• CIS 146 - Microcomputer Applications 3	_____	_____
• INT 126 - Preventive Maintenance 3	_____	_____
• * INT 127 - Principles of Industrial Pumps and Piping Systems..... 3	_____	_____
• INT 128 - Principles of Industrial Environmental Controls..... 3	_____	_____
• * INT 134 - Principles of Industrial Maintenance Welding and Metal Cutting Techniques 3	_____	_____
• INT 139 – Introduction to Robotic Programming..... 3	_____	_____
• INT 153 - Precision Machining Fundamentals I..... 3	_____	_____

INDUSTRIAL AUTOMATION TECHNOLOGY A.A.S. continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
• INT 180 - Special Topics..... 2	_____	_____
• INT 206 - Industrial Motors I 3	_____	_____
• INT 211 - Industrial Motors II 3	_____	_____
• INT 252 - Variable Speed Motor Drives..... 3	_____	_____
• INT 253 – Industrial Robotics..... 3	_____	_____
• INT 280 - Special Topics in Industrial Maintenance Technology3	_____	_____
• INT 291 - Cooperative Education..... 3	_____	_____
• INT 292 - Cooperative Education..... 3	_____	_____
• INT 293 - Cooperative Education..... 3	_____	_____
• ELT 114 – Residential Wiring Methods..... 3	_____	_____
• ELT 115 – Residential Wiring Methods II..... 3	_____	_____
• ELT 117 - AC/DC Machines 3	_____	_____
• * ELT 118 - Commercial/Industrial Wiring I OR		
INT 158 - Industrial Wiring I..... 3	_____	_____
• ELT 122 - Advanced AC/DC Machines..... 3	_____	_____
• ELT 183 - Special Topics in Electrical Technology- NCCER Certification 3	_____	_____
• ELT 212 - Motor Controls II..... 3	_____	_____
• ELT 232 - Advanced Programmable Controllers..... 3	_____	_____
• ELT 244 - Conduit Bending and Installation..... 3	_____	_____
• ACR 111 - Principles of Refrigeration 3	_____	_____
• ACR 112 - HVACR Service Procedures 3	_____	_____
• DDT 104 - Basic Computer Aided Drafting and Design OR		
MDT 105 - Introduction to Computer-Aided Design (CAD) 3	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____

***Required Courses**

Total Hours Required for Degree:..... 76

NOTICE(s): For the A.A.S. Degree in Industrial Automation Technology, the student must complete a minimum of 76 credit hours – a minimum of 61 in technical courses and a minimum of 15 in general education courses – all of which must be approved by the advisor. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student’s major advisor. Technical courses may vary to meet student needs and to provide options. Admission Requirement: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

****Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

INDUSTRIAL AUTOMATION TECHNOLOGY CERTIFICATE

Advisors – Ayers Campus: Tony Thrower, Electrical Building (256.835.5441) tthrower@gadsdenstate.edu;
East Broad Campus: Jack Mayfield, Industrial Automation Building (256.549.8637) jmayfield@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I — Written Composition: 3		
• ENG 101 - English Composition I.....3	_____	_____
Area II — Humanities and Fine Arts: 0		
Area III — Natural Science or Mathematics: 3		
• MTH 100 - Intermediate College Algebra OR numerically higher3	_____	_____
Area IV — History, Social and Behavioral Sciences: 0		
Area V – Technical Courses:.....37		
• CIS 146 - Microcomputer Applications3	_____	_____
• INT 101 - DC Fundamentals.....3	_____	_____
• INT 103 - AC Fundamentals.....3	_____	_____
• INT 113 - Industrial Motor Control I3	_____	_____
• * INT 117 - Principles of Industrial Mechanics3	_____	_____
• * INT 118 - Fundamentals of Industrial Hydraulics and Pneumatics.....3	_____	_____
• * INT 126 - Preventive Maintenance.....3	_____	_____
• * INT 127 - Principles of Industrial Pumps and Piping Systems3	_____	_____
• INT 180 - Special Topics2	_____	_____
• INT 184 - Introduction to Programmable Logic Controllers OR ELT 231 - Introduction to Programmable Controllers3	_____	_____
• * EET 100 - Introduction to Engineering Technologies3	_____	_____
• ELT 110 - Wiring Methods.....3	_____	_____
• * ELT 118 - Commercial/Industrial Wiring I OR INT 158 - Industrial Wiring I.....3	_____	_____
• ACR 111 - Principles of Refrigeration.....3	_____	_____
• ACR 112 - HVACR Service Procedures3	_____	_____
• DDT 104 - Basic Computer Aided Drafting and Design OR MDT 105 - Introduction to Computer-Aided Design (CAD).....3	_____	_____
• * ORI 101 - Orientation to College1	_____	_____
• SPH 106 - Fundamentals of Oral Communication.....3	_____	_____
• Approved Area V Electives3	_____	_____

***Required Courses**

Please see Industrial Automation Technology A.A.S. Area V for available courses.

Total Hours Required for Certificate: 43

NOTICE(s): For the certificate in Industrial Automation Technology, the student must complete at least 43 credit hours – at least 37 in technical courses and at least 6 in general education courses –all of which must be approved by the advisor. Technical courses, which may vary to meet student needs and to provide options, must be selected from those listed above. Admission Requirement: High school diploma or GED.

INDUSTRIAL AUTOMATION TECHNOLOGY SHORT-TERM CERTIFICATE

Advisors – Ayers Campus: Tony Thrower, Electrical Building (256.835.5441) tthrower@gadsdenstate.edu;

East Broad Campus: Jack Mayfield, Industrial Automation Building (256.549.8637) jmayfield@gadsdenstate.edu

STUDENT PROGRESS

Required Courses:

	<u>Grade</u>	<u>Term Completed</u>
• INT 113 - Industrial Motor Control I 3	_____	_____
• INT 117 - Principles of Industrial Mechanics 3	_____	_____
• INT 118 - Fundamentals of Industrial Hydraulics and Pneumatics 3	_____	_____
• INT 126 - Preventive Maintenance 3	_____	_____
• INT 127 - Principles of Industrial Pumps and Piping Systems.... 3	_____	_____
• EET 100 - Introduction to Engineering Technologies..... 3	_____	_____
• EET 109 - Electrical Blueprint Reading I 3	_____	_____
• ELT 110 - Wiring Methods 3	_____	_____
• ELT 118 - Commercial/Industrial Wiring I OR INT 158 - Industrial Wiring I..... 3	_____	_____
• ORI 101 - Orientation to College 1	_____	_____

Total Hours Required for Certificate: 28

NOTICE(s): For the short-term certificate in Industrial Automation Technology, the student must complete 28 credit hours from the courses listed above. All courses must be approved by the advisor. Admission Requirement: High school diploma or GED.

LEGAL TRANSCRIPTIONIST SHORT-TERM CERTIFICATE

Advisors – Ayers Campus: Fay Scott (256.439.6876) fscott@gadsdenstate.edu

Wallace Drive Campus: Fay Scott (256.439.6876) fscott@gadsdenstate.edu;

Larrhea Sims (256.439.6904) lsims@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area V—Professional, Major and Elective Courses:25		
• BUS 215 - Business Communication.....3	_____	_____
• BUS 263 - The Legal and Social Environment of Business.....3	_____	_____
• OAD 101 - Beginning Keyboarding3	_____	_____
• OAD 103 - Intermediate Keyboarding.....3	_____	_____
• OAD 104 - Advanced Keyboarding3	_____	_____
• OAD 125 - Word Processing3	_____	_____
• OAD 200 - Machine Transcription.....3	_____	_____
• OAD 202 - Legal Transcription.....3	_____	_____
• ORI 101 - Orientation to College1	_____	_____
Total Hours Required for Certificate:..... 25		

LIBERAL ARTS A.A.

Advisors – Ayers Campus: Beth Gray (256.835.5468) bgray@gadsdenstate.edu;
McClellan Center: Julian Thornton (256.238.9350) jthornton@gadsdenstate.edu;
Wallace Drive Campus: Tabitha Bozeman (256.549.8279) tbozeman@gadsdenstate.edu

	STUDENT PROGRESS	
	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition:..... 6		
• ENG 101 - English Composition I 3	_____	_____
• ENG 102 - English Composition II 3	_____	_____
Area II – Humanities and Fine Arts¹: 12		
• Literature (A sequence in Literature OR History is required) .. 3	_____	_____
• Fine Arts* 3	_____	_____
• Literature OR Humanities/Fine Arts Electives 6	_____	_____
Area III – Natural Sciences and Mathematics¹:11		
• MTH 112 - Precalculus Algebra OR Higher level Math 3	_____	_____
• Natural Science and Lab 8	_____	_____
Area IV – History, Social and Behavioral Sciences¹:12		
• History (A sequence in Literature OR History is required) 3	_____	_____
• History, Social, or Behavioral Science..... 3	_____	_____
• Social and Behavioral Sciences 6	_____	_____
Area V – Pre-Professional, Pre-Major and Electives¹:19-23		
• ORI 101 - Orientation to College 1	_____	_____
• CIS 146 - Microcomputer Applications OR Higher CIS elective . 3	_____	_____
• SPH 106 - Fundamentals of Oral Communication (elective) 3	_____	_____
• Electives..... 15-19	_____	_____
Total Hours Required for Degree:.....60-64		

NOTICE(s): ¹Students should 1) consult with an advisor and 2) refer to the Statewide Transfer and Articulation Reporting Systems (STARS) located at <http://stars.troy.edu/> and the degree requirements of the intended transfer institution.

***Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

MARKETING MANAGEMENT A.A.S.

Advisor – Wallace Drive Campus: Jamie Payton (256.549.8347) jpayton@gadsdenstate.edu;
 Angela Waits (256.549.8342) await@gadsdenstate.edu; James Yohe (256.439.6859) jyohe@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition: 6		
• ENG 101 - English Composition I.....3	_____	_____
• ENG 102 - English Composition II.....3	_____	_____
Area II - Humanities and Fine Arts:..... 3		
• Humanities OR Fine Arts*3	_____	_____
Area III – Natural Sciences and Mathematics:..... 7		
• MTH 116 - Mathematical Applications3	_____	_____
• Natural Science4	_____	_____
Area IV – History, Social and Behavioral Sciences:..... 3		
• PSY 200 - General Psychology3	_____	_____
Area V – Pre-Professional, Pre-Major and Electives: 49		
• BUS 100 - Introduction to Business.....3	_____	_____
• BUS 146 - Personal Finance.....3	_____	_____
• BUS 186 - Elements of Supervision3	_____	_____
• BUS 241 - Principles of Accounting I3	_____	_____
• BUS 263 - The Legal and Social Environment of Business.....3	_____	_____
• BUS 276 - Human Resource Management.....3	_____	_____
• BUS 291 - Alternating Business Co-Op I OR BUS 296 - Business Internship I.....3	_____	_____
• CIS 146 - Microcomputer Applications3	_____	_____
• MKT 122 - Visual Merchandising.....3	_____	_____
• MKT 123 - Fundamentals of Selling3	_____	_____
• MST 209 - Physical Supply and Distribution Management3	_____	_____
• MKT 220 - Advertising and Sales Promotion.....3	_____	_____
• MKT 221 - Consumer Behavior3	_____	_____
• MST 223 - Special Studies in Personnel Administration3	_____	_____
• MST 225 - Special Studies in Business Management.....3	_____	_____
• ORI 101 - Orientation to College.....1	_____	_____
• SPH 106 - Fundamentals of Oral Communication.....3	_____	_____
Total Hours Required for Degree:68		

***Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

MASSAGE THERAPY SHORT-TERM CERTIFICATE

Advisors – Wallace Drive Campus: Laura Nelson (256.439.6916) lnelson@gadsdenstate.edu;
Joshua Olander (256.549.8326) jolander@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area V – Professional, Major and Elective Courses: 29		
• MSG 102 - Therapeutic Massage Lab I..... 3	_____	_____
• MSG 103 - Anatomy and Physiology..... 3	_____	_____
• MSG 104 - Musculo-Skeletal and Kinesiology I..... 3	_____	_____
• MSG 105 - Therapeutic Massage Supervised Clinical I 2	_____	_____
• MSG 108 - Foundations of Therapeutic Massage 2	_____	_____
• MSG 200 - Business and Marketing Plans..... 1	_____	_____
• MSG 201 - Therapeutic Massage for Special Populations..... 2	_____	_____
• MSG 202 - Therapeutic Massage Lab II..... 3	_____	_____
• MSG 203 - Pathology 3	_____	_____
• MSG 204 - Musculo-Skeletal and Kinesiology II..... 3	_____	_____
• MSG 205 - Therapeutic Massage Supervised Clinical II 2	_____	_____
• MSG 206 - Licensure Exam Review 1	_____	_____
• ORI 101 - Orientation to College..... 1	_____	_____

Total Hours Required for Certificate: 29

NOTICE(s): This is a Short Certificate Program.

Admission Requirements: The student must have a high school diploma or GED, a qualifying score on the reading portion of the Accuplacer Placement test, and be at least 17 years of age. This program is offered on the Valley Street Campus. Applicants will be admitted once per year, in Fall semester.

MECHANICAL DESIGN TECHNOLOGY A.A.S.

Advisor – East Broad Campus: James Wilson, Bevill Center (256.549.8659) jwilson@gadsdenstate.edu

	STUDENT PROGRESS	
	<u>Grade</u>	<u>Term Completed</u>
Area I — Written Composition:..... 3		
• ENG 101 - English Composition I..... 3	_____	_____
Area II — Humanities and Fine Arts: 3		
• Humanities and Fine Arts Elective** 3	_____	_____
Area III — Natural Science or Mathematics:..... 6		
• INT 104 - Principles of Technology 3	_____	_____
• MTH 100 - Intermediate College Algebra OR numerically higher 3	_____	_____
Area IV - History, Social and Behavioral Sciences: 3		
• Economics, Geography, History, Political Science, Psychology, or Sociology 3	_____	_____
Area V — Technical Courses: 22		
The following courses are required.		
• CET 100 - Engineering Blueprints..... 3	_____	_____
• CET 101 - Introduction to Engineering Technology 3	_____	_____
• MDT 105 - Introduction to Computer-Aided Design (CAD) 3	_____	_____
• MDT 146 - AutoCAD CADD..... 3	_____	_____
• MDT 147 - Inventor CADD 3	_____	_____
• CET 215 - Statics..... 3	_____	_____
• CET 217 - Strength of Materials..... 3	_____	_____
• ORI 101 - Orientation to College..... 1	_____	_____
Additional Coursework:..... 33		
• CIS 146 - Microcomputer Applications 3	_____	_____
• * MDT 111 - Mechanical Drawing..... 3	_____	_____
• MDT 122 - Architectural Drawing 3	_____	_____
• MDT 123 - Architectural Drawing II 3	_____	_____
• MDT 187 - Advanced Inventor CADD..... 3	_____	_____
• * MDT 202 - SOLID WORKS CADD..... 3	_____	_____
• MDT 203 - Pro-Engineering CADD 3	_____	_____
• * MDT 211 - Advanced Mechanical Drawings..... 3	_____	_____
• * MDT 221 - Machine Design..... 3	_____	_____
• MDT 252 - Advanced SOLID WORKS CADD..... 3	_____	_____
• MDT 261 - HVAC and Pipe Systems Design..... 3	_____	_____
• MDT 271 - Structural and Weld Design 3	_____	_____
• MDT 272 - Electrical and Electronic Design..... 3	_____	_____

MECHANICAL DESIGN TECHNOLOGY A.A.S. continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
• MDT 280 - 3-D Studio Max 3	_____	_____
• MDT 293 - Advanced Pro-Engineer 3	_____	_____
• MDT Elective..... 3	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____

***Required Courses**

Total Hours Required for Degree: 70

NOTICE(s): For the A.A. S. Degree in Civil Engineering Technology, Mechanical Design Technology Specialty, the student must complete a minimum of 70 credit hours — a minimum of 55 in technical courses and a minimum of 15 in general education courses — all of which must be approved by the advisor. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student’s major advisor. Technical courses may vary to meet student needs and to provide options. Admission Requirement: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

This program is offered at the East Broad Campus only.

****Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

MECHANICAL DESIGN TECHNOLOGY CERTIFICATE

Advisor – East Broad Campus: James Wilson, Bevill Center (256.549.8659) jwilson@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I–Written Composition:3		
• ENG 101 - English Composition I3	_____	_____
Area II–Humanities and Fine Arts:.....0		
Area III–Natural Science or Mathematics:3		
• MTH 100 - Intermediate College Algebra OR numerically higher.....3	_____	_____
Area IV—History, Social and Behavioral Sciences:.....0		
Area V–Technical Courses:.....40		
• * CET 100 - Engineering Blueprints3	_____	_____
• * CET 101 - Introduction to Engineering Technology3	_____	_____
• CIS 146 - Microcomputer Applications.....3	_____	_____
• * MDT 105 - Introduction to Computer-Aided Design (CAD) ...3	_____	_____
• * MDT 111 - Mechanical Drawing3	_____	_____
• MDT 122 - Architectural Drawing.....3	_____	_____
• * MDT 146 - AutoCAD CADD3	_____	_____
• * MDT 147 - Inventor CADD3	_____	_____
• MDT 202 - SOLID WORKS CADD3	_____	_____
• * MDT 211 - Advanced Mechanical Drawings3	_____	_____
• MDT 221 - Machine Design3	_____	_____
• MDT 261 - HVAC and Pipe Systems Design3	_____	_____
• MDT 271 - Structural and Weld Design.....3	_____	_____
• MDT 272 - Electrical and Electronic Design.....3	_____	_____
• * ORI 101 - Orientation to College1	_____	_____
• SPH 106 - Fundamentals of Oral Communication3	_____	_____
*Required Courses		
Total Hours Required for Certificate:.....46		

NOTICE(s): For the certificate in Civil Engineering Technology, Mechanical Design Technology Specialty, the student must complete at least 46 credit hours – at least 40 in technical courses and at least 6 in general education courses – all of which must be approved by the advisor. Technical courses, which may vary to meet student needs and to provide options, must be selected from those listed above. Admission Requirement: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

****This program is offered at the East Broad Campus only.**

MEDICAL LABORATORY TECHNOLOGY A.A.S.

Advisors – Wallace Drive Campus: Ann Wheeler (256.549.8471) awheeler@gadsdenstate.edu;
Deborah Cole (256.549.8470) dcole@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition: 6		
• ENG 101 - English Composition I..... 3	_____	_____
• ENG 102 - English Composition II..... 3	_____	_____
Area II – Humanities and Fine Arts: 3		
• Fine Arts Elective* 3	_____	_____
Area III – Natural Sciences and Mathematics: 11		
• BIO 103 - Principles of Biology I 4	_____	_____
• CHM 104 - Introduction to Inorganic Chemistry 4	_____	_____
• MTH 100 - Intermediate College Algebra OR Higher level Math (MTH 116 is not a higher level math)..... 3	_____	_____
Area IV – History, Social and Behavioral Sciences: 3		
• PSY 200 - General Psychology 3	_____	_____
Area V – Professional, Major and Elective Courses: 54		
In lieu of CIS 146, competency in basic use of computers is demonstrated by extensive use of computers as required in labs and clinicals.		
• MLT 100 - Phlebotomy..... 2	_____	_____
• MLT 111 - Urinalysis and Body Fluids 4	_____	_____
• MLT 121 - MLT Hematology..... 5	_____	_____
• MLT 131 - Laboratory Techniques 4	_____	_____
• MLT 141 - MLT Microbiology I 5	_____	_____
• MLT 142 - MLT Microbiology II 4	_____	_____
• MLT 151 - MLT Clinical Chemistry..... 5	_____	_____
• MLT 161 - Integrated Laboratory Simulation..... 2	_____	_____
• MLT 181 - MLT Immunology 2	_____	_____
• MLT 191 - MLT Immunohematology..... 5	_____	_____
• MLT 286 - Special Topics in MLT 1	_____	_____
• MLT 293 - MLT Medical Seminar 2	_____	_____
• MLT 294 - Medical Laboratory Practicum I 3	_____	_____
• MLT 295 - Medical Laboratory Practicum II 3	_____	_____
• MLT 296 - Medical Laboratory Practicum III 3	_____	_____
• MLT 297 - Medical Laboratory Practicum IV 3	_____	_____
• ORI 101 - Orientation to College..... 1	_____	_____

Total Hours Required for Degree: 77

***Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

MEDICAL TRANSCRIPTIONIST SHORT-TERM CERTIFICATE

Advisors – Ayers Campus: Fay Scott (256.439.6876) fscott@gadsdenstate.edu

Wallace Drive Campus: Fay Scott (256.439.6876) fscott@gadsdenstate.edu

Larrhea Sims (256.439.6904) lsims@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area V – Professional, Major and Elective Courses:25		
• BIO 120 - Medical Terminology.....3	_____	_____
• OAD 101 - Beginning Keyboarding3	_____	_____
• OAD 103 - Intermediate Keyboarding.....3	_____	_____
• OAD 104 - Advanced Keyboarding3	_____	_____
• OAD 125 - Word Processing3	_____	_____
• OAD 212 - Medical Transcription3	_____	_____
• OAD 213 - Advanced Medical Transcription3	_____	_____
• OAD 215 - Health Information Management.....3	_____	_____
• ORI 101 - Orientation to College1	_____	_____
Total Hours Required for Certificate:.....25		

OFFICE ADMINISTRATION A.A.S.

Advisors - Ayers Campus: Fay Scott (256.439.6876) fscott@gadsdenstate.edu
Wallace Drive Campus: Fay Scott (256.439.6876) fscott@gadsdenstate.edu
 Larrhea Sims (256.439.6904) lsims@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition: 6		
• ENG 101 - English Composition I..... 3	_____	_____
• ENG 102 - English Composition II..... 3	_____	_____
Area II - Humanities and Fine Arts: 3		
• Humanities OR Fine Arts* 3	_____	_____
Area III – Natural Sciences and Mathematics: 7		
• BIO 103 - Principles of Biology I 4	_____	_____
• MTH 100 - Intermediate College Algebra OR MTH 116 - Mathematical Applications 3	_____	_____
Area IV – History, Social and Behavioral Sciences:..... 3		
• ECO 231 - Principles of Macroeconomics 3	_____	_____
Area V – Administrative Assistant – General: 49		
• BUS 215 - Business Communication 3	_____	_____
• BUS 241 - Principles of Accounting I 3	_____	_____
• BUS 263 - The Legal and Social Environment of Business..... 3	_____	_____
• CIS 146 - Microcomputer Applications 3	_____	_____
• CIS 147 - Advanced Micro Applications 3	_____	_____
• OAD 101 - Beginning Keyboarding OR OAD elective (Consult OAD advisor) 3	_____	_____
• OAD 103 - Intermediate Keyboarding..... 3	_____	_____
• OAD 104 - Advanced Keyboarding..... 3	_____	_____
• OAD 125 - Word Processing..... 3	_____	_____
• OAD 126 - Advanced Word Processing 3	_____	_____
• OAD 134 - Career and Professional Development..... 3	_____	_____
• OAD 138 - Records and Information Management 3	_____	_____
• OAD 200 - Machine Transcription..... 3	_____	_____
• OAD 218 - Office Procedures 3	_____	_____
• OAD 241 - Office Co-op OR OAD 242 - Office Internship 3	_____	_____
• ORI 101 - Orientation to College..... 1	_____	_____
• SPH 106 - Fundamentals of Oral Communication..... 3	_____	_____
Total Hours Required for Degree: 68		

***Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

OFFICE ADMINISTRATION A.A.S. continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area V – Administrative Assistant – Legal: 52		
• BUS 215 - Business Communication 3	_____	_____
• BUS 241 - Principles of Accounting I 3	_____	_____
• BUS 263 - The Legal and Social Environment of Business 3	_____	_____
• CIS 146 - Microcomputer Applications 3	_____	_____
• CIS 147 - Advanced Micro Applications 3	_____	_____
• OAD 101 - Beginning Keyboarding OR OAD elective (Consult OAD advisor) 3	_____	_____
• OAD 103 - Intermediate Keyboarding 3	_____	_____
• OAD 104 - Advanced Keyboarding 3	_____	_____
• OAD 125 - Word Processing 3	_____	_____
• OAD 126 - Advanced Word Processing 3	_____	_____
• OAD 134 - Career and Professional Development 3	_____	_____
• OAD 138 - Records and Information Management 3	_____	_____
• OAD 200 - Machine Transcription 3	_____	_____
• OAD 202 - Legal Transcription 3	_____	_____
• OAD 218 - Office Procedures 3	_____	_____
• OAD 241 - Office Co-op OR OAD 242 - Office Internship 3	_____	_____
• ORI 101 - Orientation to College 1	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____
Total Hours Required for Degree: 71		

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area V – Administrative Assistant – Medical: 51		
• BIO 120 - Medical Terminology 3	_____	_____
• BIO 206 - Human Anatomy 4	_____	_____
• BUS 215 - Business Communication 3	_____	_____
• BUS 241 - Principles of Accounting I 3	_____	_____
• CIS 146 - Microcomputer Applications 3	_____	_____
• HIT 230 - Medical Coding Systems I 3	_____	_____
• HIT 231 - Medical Coding Skills Laboratory (Corequisite) 1	_____	_____
• OAD 101 - Beginning Keyboarding OR OAD elective (Consult OAD advisor) 3	_____	_____
• OAD 103 - Intermediate Keyboarding 3	_____	_____
• OAD 125 - Word Processing 3	_____	_____
• OAD 138 - Records and Information Management 3	_____	_____
• OAD 200 - Machine Transcription 3	_____	_____
• OAD 212 - Medical Transcription 3	_____	_____
• OAD 215 - Health Information Management 3	_____	_____
• OAD 218 - Office Procedures 3	_____	_____
• OAD 241 - Office Co-op OR OAD 242 - Office Internship 3	_____	_____
• ORI 101 - Orientation to College 1	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____
Total Hours Required for Degree: 70		

OFFICE ADMINISTRATION A.A.S. continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area V – Transcription and Coding:.....49		
• BIO 120 - Medical Terminology..... 3	_____	_____
• BIO 206 - Human Anatomy4	_____	_____
• CIS 146 - Microcomputer Applications3	_____	_____
• CIS 147 - Advanced Micro Applications3	_____	_____
• HIT 230 - Medical Coding Systems I.....3	_____	_____
HIT 231 - Medical Coding Skills Laboratory (Corequisite).....1	_____	_____
• HIT 232 - Medical Coding Systems II.....3	_____	_____
HIT 233 - Medical Coding Skills Laboratory (Corequisite).....1	_____	_____
• OAD 101 - Beginning Keyboarding OR		
OAD elective (Consult OAD advisor).....3	_____	_____
• OAD 103 - Intermediate Keyboarding.....3	_____	_____
• OAD 125 - Word Processing.....3	_____	_____
• OAD 200 - Machine Transcription.....3	_____	_____
• OAD 212 - Medical Transcription.....3	_____	_____
• OAD 213 - Advanced Medical Transcription.....3	_____	_____
• OAD 215 - Health Information Management.....3	_____	_____
• OAD 241 - Office Co-op OR		
OAD 242 - Office Internship.....3	_____	_____
• ORI 101 - Orientation to College.....1	_____	_____
• SPH 106 - Fundamentals of Oral Communication.....3	_____	_____
Total Hours Required for Degree:68		

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area V—Health Information Technology Management:51		
• BIO 120 - Medical Terminology.....3	_____	_____
• BIO 206 - Human Anatomy4	_____	_____
• CIS 146 - Microcomputer Applications3	_____	_____
• HIT 134 - HIT Legal and Ethical Issues.....3	_____	_____
• HIT 151 - Health Data Content and Structure.....3	_____	_____
• HIT 153 - Health Care Delivery Systems.....2	_____	_____
• HIT 230 - Medical Coding Systems I.....3	_____	_____
• HIT 231 - Medical Coding Skills Laboratory.....1	_____	_____
• HIT 232 - Medical Coding Systems II.....3	_____	_____
• HIT 233 - Medical Coding Skills Laboratory.....1	_____	_____
• HIT 254 - Organization Improvement3	_____	_____
• HIT 295 - Special Topics in HIT III3	_____	_____
• OAD 101 - Beginning Keyboarding OR OAD elective3	_____	_____
• OAD 125 - Word Processing.....3	_____	_____
• OAD 215 - Health Information Management.....3	_____	_____
• OAD 217 - Office Management.....3	_____	_____
• OAD 241 - Office Co-op OR		
OAD 242 - Office Internship.....3	_____	_____
• ORI 101 - Orientation to College.....1	_____	_____
• SPH 106 - Fundamentals of Oral Communication.....3	_____	_____
Total Hours Required for Degree:70		

PARALEGAL A.A.S.

Advisors – Wallace Drive Campus: Elizabeth Howard (256.549.8336) ehoward@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition: 6		
• ENG 101 - English Composition I	_____	_____
• ENG 102 - English Composition II	_____	_____
Area II - Humanities and Fine Arts: 3		
• Humanities OR Fine Arts*	_____	_____
Area III – Natural Sciences and Mathematics: 7		
• BIO 103 - Principles of Biology I	_____	_____
• MTH 116 - Mathematical Applications	_____	_____
Area IV – History, Social and Behavioral Sciences: 6		
• ECO 231 - Principles of Macroeconomics	_____	_____
• PSY 200 - General Psychology OR SOC 200 - Introduction to Sociology	_____	_____
Area V – Pre-Professional, Pre-Major and Electives:..... 49		
• BUS 215 - Business Communication	_____	_____
• BUS 241 - Principles of Accounting I	_____	_____
• BUS 242 - Principles of Accounting II OR ECO 232 - Principles of Microeconomics	_____	_____
• BUS 263 - The Legal and Social Environment of Business	_____	_____
• CIS 146 - Microcomputer Applications	_____	_____
• OAD 101 - Beginning Keyboarding	_____	_____
• ORI 101 - Orientation to College.....	_____	_____
• PRL 101 - Introduction to Paralegal Study	_____	_____
• PRL 102 - Basic Legal Research & Writing.....	_____	_____
<small>(PRL 101 & PRL 102 are corequisites AND prerequisites to other legal specialty courses)</small>		
• PRL 103 - Advanced Legal Research and Writing.....	_____	_____
• PRL 160 - Criminal Law and Procedure	_____	_____
• PRL 210 - Introduction to Real Property Law.....	_____	_____
• PRL 230 - Domestic Law.....	_____	_____
• PRL 240 - Wills, Estates, and Trusts	_____	_____
• PRL 262 - Civil Law and Procedures	_____	_____
• PRL 291 - Internship in Paralegalism	_____	_____
• SPH 106 - Fundamentals of Oral Communication	_____	_____
Total Hours Required for Degree: 71		

NOTICE(s): Gadsden State Community College’s Paralegal Program is approved by the American Bar Association. Legal specialty courses transferred from regionally accredited programs must be evaluated by the program coordinator to ensure that the content of the course is comparable to the Gadsden State course before acceptance. It is the responsibility of the student to verify the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

- The Paralegal Program is a Selective Admission Program.
- Legal specialty courses taken at ABA-approved schools will transfer automatically to equivalent Gadsden State courses if the student has a grade of C or above in the course.
- Legal specialty courses from non-ABA schools in Alabama will be evaluated by the program director to determine if credit will be awarded.
- Legal studies courses from non-ABA out-of-state programs will not be considered for transfer credit.
- Transfer credit for Paralegal courses will be limited to six (6) semester credit hours.
- A student must take at least ten (10) semester credit hours in the legal specialty courses in a traditional classroom setting.
- These policies are published in the Paralegal Brochure, the Paralegal webpage, and the GSCC catalogue.

Paralegals are NOT licensed to practice law.

PRECISION MACHINING A.A.S.

Advisors – Ayers Campus: Steve Caldwell, Machine Tool Building (256.835.5417) scaldwell@gadsdenstate.edu;
East Broad Campus: David Smith, Machine Technology Building (256.549.8644) dsmith@gadsdenstate.edu;
 Jeff Gaither, Machine Technology Building jgaither@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I—Written Composition:3		
• ENG 101 - English Composition I.....3	_____	_____
Area II—Humanities and Fine Arts:3		
• Humanities and Fine Arts Elective**3	_____	_____
Area III—Natural Science or Mathematics:6		
• INT 104 - Principles of Technology.....3	_____	_____
• MTH 100 - Intermediate College Algebra OR numerically higher3	_____	_____
Area IV—History, Social and Behavioral Sciences:3		
• Economics, Geography, History, Political Science, Psychology, or Sociology3	_____	_____
Area V—Technical Courses:.....22		
The following courses are required.		
• MTT 107 - Machining Calculations I OR EET 100 - Introduction to Engineering Technologies3	_____	_____
• MTT 121 - Basic Print Reading for Machinists3	_____	_____
• MTT 127 - Metrology3	_____	_____
• MTT 147 - Introduction to Machine Shop I.....3	_____	_____
• MTT 148 - Introduction to Machine Shop I Lab3	_____	_____
• MTT 149 - Introduction to Machine Shop II.....3	_____	_____
• MTT 150 - Introduction to Machine Shop II Lab3	_____	_____
• ORI 101 - Orientation to College.....1	_____	_____
Additional Coursework:36		
• CIS 146 - Microcomputer Applications3	_____	_____
• DDT 104 - Basic Computer Aided Drafting and Design OR MDT 105 - Introduction to Computer-Aided Design (CAD).....3	_____	_____
• MTT 108 - Machine Handbook Functions I.....3	_____	_____
• MTT 109 - Orientation to Computer Assisted Manufacturing ...3	_____	_____
• MTT 123 - Engine Lathe Lab I.....3	_____	_____
• MTT 124 - Engine Lathe Lab II.....3	_____	_____
• *MTT 128 - Geometric Dimensioning and Tolerancing I.....3	_____	_____
• MTT 134 - Lathe Operations I3	_____	_____
• MTT 137 - Milling I3	_____	_____
• MTT 138 - Milling I Lab.....3	_____	_____
• *MTT 139 - Basic Computer Numerical Control3	_____	_____

PRECISION MACHINING A.A.S. continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
• MTT 140 - Basic Computer Numerical Control Turning Programming I 3	_____	_____
• MTT 141 - Basic Computer Numeric Control Milling Programming I 3	_____	_____
• MTT 154 - Metallurgy 3	_____	_____
• MTT 181 - Special Topics in Machine Tool Technology 3	_____	_____
• MTT 202 - Machine Maintenance and Repair 3	_____	_____
• MTT 219 - Computer Numerical Control Graphics: Turning 3	_____	_____
• MTT 220 - Computer Numerical Control Graphics: Milling 3	_____	_____
• MTT 221 - Advanced Blueprint Reading for Machinists 3	_____	_____
• MTT 241 - CNC Milling Lab I 3	_____	_____
• MTT 243 - CNC Turning Lab I 3	_____	_____
• MTT 270 – Machining Skills Application 3	_____	_____
• MTT 281 - Special Topics in Machine Tool Technology 3	_____	_____
• MTT 291 - Cooperative Education in Machine Tool Technology 3	_____	_____
• MTT 292 - Cooperative Education in Machine Tool Technology 3	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____

***Required Courses**

Total Hours Required for Degree: 73

NOTICE(s): For the A.A.S. Degree in Precision Machining, the student must complete a minimum of 73 credit hours—a minimum of 58 in technical courses and a minimum of 15 in general education courses—all of which must be approved by the advisor. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student's major advisor. Admission Requirement: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

****Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

PRECISION MACHINING CERTIFICATE

Advisors – Ayers Campus: Steve Caldwell, Machine Tool Building (256.835.5417) scaldwell@gadsdenstate.edu;

East Broad Campus: David Smith, Machine Technology Building (256.549.8644) dsmith@gadsdenstate.edu;

Jeff Gaither, Machine Technology Building jgaither@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I—Written Composition: 3		
• ENG 101 - English Composition I 3	_____	_____
Area II—Humanities and Fine Arts: 0		
Area III—Natural Science or Mathematics: 3		
• MTH 100 - Intermediate College Algebra OR numerically higher..... 3	_____	_____
Area IV—History, Social and Behavioral Sciences: 0		
Area V—Technical Courses:40		
• CIS 146 - Microcomputer Applications 3	_____	_____
• DDT 104 - Basic Computer Aided Drafting and Design OR MDT 105 - Introduction to Computer-Aided Design (CAD) 3	_____	_____
• MTT 107 - Machining Calculations I 3	_____	_____
• * MTT 121 - Basic Print Reading for Machinists 3	_____	_____
• MTT 123 - Engine Lathe Lab I 3	_____	_____
• MTT 127 - Metrology..... 3	_____	_____
• MTT 128 - Geometric Dimensioning and Tolerancing I 3	_____	_____
• MTT 134 - Lathe Operations I 3	_____	_____
• MTT 137 - Milling I..... 3	_____	_____
• * MTT 139 - Basic Computer Numerical Control 3	_____	_____
• MTT 140 - Basic Computer Numerical Control Turning Programming I..... 3	_____	_____
• MTT 141 - Basic Computer Numeric Control Milling Programming I 3	_____	_____
• * MTT 147 - Introduction to Machine Shop I..... 3	_____	_____
• * MTT 148 - Introduction to Machine Shop I Lab 3	_____	_____
• MTT 149 - Introduction to Machine Shop II 3	_____	_____
• MTT 150 - Introduction to Machine Shop II Lab..... 3	_____	_____
• MTT 154 - Metallurgy 3	_____	_____
• MTT 181 - Special Topics in Machine Tool Technology 3	_____	_____
• MTT 221 - Advanced Blueprint Reading for Machinists 3	_____	_____
• MTT 270 – Machining Skills Application 3	_____	_____
• * ORI 101 - Orientation to College..... 1	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____

***Required Courses**

Total Hours Required for Certificate: 46

NOTICE(s): For the certificate in Precision Machining, the student must complete at least 46 credit hours—at least 40 in technical courses and at least 6 in general education courses. Technical courses, which may vary to meet student needs and to provide options, must be selected from those listed above.

Admission Requirement: High school diploma or GED The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

PRECISION MACHINING - BASIC CNC TECHNOLOGY SHORT-TERM CERTIFICATE

Advisors - Ayers Campus: Steve Caldwell, Machine Tool Building (256.835.5417) scaldwell@gadsdenstate.edu;
East Broad Campus: David Smith, Machine Tool Technology Building (2563549.8644) dsmith@gadsdenstate.edu; Jeff Gaither, Machine Tool Technology Building, jgaither@gadsdenstate.edu

STUDENT PROGRESS

Required Courses:

	<u>Grade</u>	<u>Term Completed</u>
• MTT 139 - Basic Computer Numerical Control3	_____	_____
• MTT 140 - Basic Computer Numerical Control Turning Programming I3	_____	_____
• MTT 141 - Basic Computer Numeric Control Milling Programming I.....3	_____	_____
• MTT 219 - Computer Numerical Control Graphics: Turning3	_____	_____
• MTT 220 - Computer Numerical Control Graphics: Milling.....3	_____	_____
• MTT 241 - CNC Milling Lab I3	_____	_____
• MTT 243 - CNC Turning Lab I.....3	_____	_____
• MTT 244 - CNC Turning Lab II.....3	_____	_____
• MTT 281 - Special Topics in Machine Tool Technology3	_____	_____
• MTT 282 - Special Topics in Machine Tool Technology3	_____	_____
• MTT 292 - Cooperative Education in Machine Tool Technology.....3	_____	_____
• * ORI 101 - Orientation to College1	_____	_____

***Required Courses**

Total Hours Required for Certificate:..... 27

NOTICE(s): For the short-term certificate in CNC Technology, the student must complete a minimum of 27 credit hours from the courses listed above. All courses must be approved by the advisor. Admission Requirement: Completion of a Precision Machining Certificate/Diploma or approval from an advisor. The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

PRECISION MACHINING – BASIC PRECISION MACHINING SHORT-TERM CERTIFICATE

Advisors – Ayers Campus: Steve Caldwell, Machine Tool Building (256.835.5417) scaldwell@gadsdenstate.edu
East Broad Campus: David Smith, Machine Technology Building (256.549.8644) dsmith@gadsdenstate.edu;
 Jeff Gaither, Machine Technology Building, jgaither@gadsdenstate.edu

STUDENT PROGRESS

Grade Term Completed

Required Courses:

• MTT 107 – Machining Calculations I OR EET 100 - Introduction to Engineering Technologies3	_____	_____
• * MTT 121 - Basic Print Reading for Machinists3	_____	_____
• MTT 123 - Engine Lathe Lab I3	_____	_____
• MTT 127 - Metrology3	_____	_____
• MTT 128 - Geometric Dimensioning and Tolerancing I.....3	_____	_____
• MTT 134 - Lathe Operations I.....3	_____	_____
• MTT 137 - Milling I3	_____	_____
• MTT 138 - Milling I Lab.....3	_____	_____
• MTT 139 - Basic Computer Numerical Control.....3	_____	_____
• MTT 140 - Basic Computer Numerical Control Turning Programming I3	_____	_____
• MTT 141 - Basic Computer Numeric Control Milling Programming I.....3	_____	_____
• * MTT 147 - Introduction to Machine Shop I3	_____	_____
• * MTT 148 - Introduction to Machine Shop I Lab3	_____	_____
• MTT 154 - Metallurgy.....3	_____	_____
• MTT 181 - Special Topics in Machine Tool Technology.....3	_____	_____
• MTT 221 - Advanced Blueprint Reading for Machinists.....3	_____	_____
• MTT 270 – Machining Skills Application.....3	_____	_____
• * ORI 101 - Orientation to College.....1	_____	_____

***Required Courses**

Total Hours Required for Certificate:.....28

NOTICE(s): For the short-term certificate in Precision Machining Technology, the student must complete a minimum of 27 credit hours from the courses listed above. All courses must be approved by the advisor. Admission Requirement: High school diploma or GED. The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

RADIOLOGIC TECHNOLOGY A.A.S.

Advisors – Wallace Drive Campus: Deborah Gay Utz, (256.549.8468) gutz@gadsdenstate.edu;
 Gina Tice, (256.549.8469) gtice@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition:	3-6	
• ENG 101 - English Composition I.....	3	_____
• ENG 102 - English Composition II*.....	3	_____
Area II – Humanities and Fine Arts:	3	
• Humanities and Fine Arts Elective*	3	_____
Area III – Natural Sciences and Mathematics:.....	11	
• BIO 201 - Human Anatomy and Physiology I	4	_____
• BIO 202 - Human Anatomy and Physiology II	4	_____
• MTH 100 - Intermediate College Algebra OR Higher level Math (Math 116 is not a higher level Math)	3	_____
Area IV – History, Social and Behavioral Sciences:.....	3	
• PSY 200 - General Psychology	3	_____
Area V – Professional, Major and Elective Courses:	56	
In lieu of CIS 146, competency in basic use of computers is demonstrated by extensive use of computers as required in labs and clinicals.		
• ORI 101 - Orientation to College.....	1	_____
• RAD 111 - Introduction to Radiography.....	2	_____
• RAD 112 - Radiographic Procedures I	4	_____
• RAD 113 - Patient Care.....	2	_____
• RAD 114 - Clinical Education I	2	_____
• RAD 122 - Radiographic Procedures II	4	_____
• RAD 124 - Clinical Education II	5	_____
• RAD 125 - Imaging Equipment	3	_____
• RAD 134 - Clinical Education III	5	_____
• RAD 135 - Exposure Principles	3	_____
• RAD 136 - Radiation Protection and Biology.....	2	_____
• RAD 212 - Image Evaluation and Pathology.....	2	_____
• RAD 214 - Clinical Education IV.....	8	_____
• RAD 224 - Clinical Education V.....	8	_____
• RAD 227 - Review Seminar.....	2	_____
• SPH 106 - Fundamentals of Oral Communication*	3	_____
Total Hours Required for Degree:.....	76	

NOTICE: The Radiologic Technology Program has a selective admission process. Please visit the Program website for complete details: <http://www.gadsdenstate.edu/academics/health/rad.php>

*See Advisor

REALTIME REPORTING—BROADCAST CAPTIONING SPECIALIZATION A.A.S.

Advisors – East Broad Campus: Leah Elkins, Realtime Reporting Building (256.549.8693) lelkins@gadsdenstate.edu; Michelle Roberts, Realtime Reporting Building (256-549-8629) mroberts@gadsdenstate.edu; Brooke Davis, Realtime Reporting Building (256.549-8694) brookedavis@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I—Written Composition:.....6		
• ENG 101 - English Composition I.....3	_____	_____
• * ENG 131 - Applied Writing I.....3	_____	_____
Area II—Humanities and Fine Arts:3		
• Humanities and Fine Arts Elective**3	_____	_____
Area III—Natural Science or Mathematics:.....6		
• * BIO 120 - Medical Terminology3	_____	_____
• MTH 100 - Intermediate College Algebra OR numerically higher.....3	_____	_____
Area IV—History, Social and Behavioral Sciences:3		
• Economics, Geography, History, Political Science, Psychology, or Sociology3	_____	_____
Area V—Technical Courses:18		
• * RTR 110 - Realtime Reporting I / Laboratory.....5	_____	_____
• * RTR 130 - Realtime Reporting II / Laboratory.....5	_____	_____
• * RTR 131 - Civil and Criminal Law and Terminology for Real Time Reporters.....3	_____	_____
• * RTR 150 - Realtime Reporting III / Laboratory.....5	_____	_____
Additional Coursework:39		
• * ORI 101 - Orientation to College.....1	_____	_____
• * RTR 115 – Realtime Reporting Technology3	_____	_____
• * RTR 171 - Broadcast Captioning I/Laboratory5	_____	_____
• * RTR 172 - Broadcast Captioning II/Laboratory5	_____	_____
• * RTR 173 - Broadcast Captioning III/Laboratory5	_____	_____
• * RTR 175 - Realtime Closed Captioning Technology II2	_____	_____
• * RTR 226 - Judicial Procedures.....3	_____	_____
• RTR 227 - Moot Court Practicum I.....5	_____	_____
• * RTR 230 – Realtime Application2	_____	_____
• RTR 257 - Moot Court Practicum II.....5	_____	_____
• * RTR 292 - Broadcast Captioning Internship3	_____	_____
• RTR 184-189 Realtime Lab I-VI (Electives).....2	_____	_____
• RTR 295-299 Selected Topics in RTR (Electives).....5	_____	_____
*Required Courses		

Total Hours Required for Degree:.....75

NOTICE(s): *Required by NCRA For the AAS Degree in Broadcast Captioning, the student must complete a minimum of 75 credit hours—a minimum of 57 in technical courses and a minimum of 18 in general education courses—all of which must be approved by the program advisor. Courses will be selected from those listed above. Admission Requirements: High school diploma or GED, a minimum score of 5 on the English portion and a minimum score of 70 on the reading portion of the ACCUPLACER Placement Test.

This program is offered at the East Broad Campus only.

****Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

REALTIME REPORTING A.A.S.

Advisors – East Broad Campus: Leah Elkins, Realtime Reporting Building (256.549.8693) lelkins@gadsdenstate.edu; Michelle Roberts, Realtime Reporting Building (256-549-8629) mroberts@gadsdenstate.edu; Brooke Davis, Realtime Reporting Building (256.549-8694) brookedavis@gadsdenstate.edu

	STUDENT PROGRESS	
	<u>Grade</u>	<u>Term Completed</u>
Area I—Written Composition:.....6		
• ENG 101 - English Composition I..... 3	_____	_____
• * ENG 131 - Applied Writing I..... 3	_____	_____
Area II—Humanities and Fine Arts:3		
• Humanities and Fine Arts Elective** 3	_____	_____
Area III—Natural Science or Mathematics:.....6		
• * BIO 120 - Medical Terminology 3	_____	_____
• MTH 100 - Intermediate College Algebra OR numerically higher..... 3	_____	_____
Area IV—History, Social and Behavioral Sciences:3		
• Economics, Geography, History, Political Science, Psychology, or Sociology..... 3	_____	_____
Area V—Technical Courses:18		
• * RTR 110 - Realtime Reporting I / Laboratory..... 5	_____	_____
• * RTR 130 - Realtime Reporting II / Laboratory..... 5	_____	_____
• * RTR 131 - Civil and Criminal Law and Terminology for Real Time Reporters..... 3	_____	_____
• * RTR 150 - Realtime Reporting III / Laboratory..... 5	_____	_____
Additional Coursework:39		
• * ORI 101 - Orientation to College 1	_____	_____
• * RTR 115 - Realtime Reporting Technology 3	_____	_____
• * RTR 210 - Realtime Reporting IV / Laboratory..... 5	_____	_____
• RTR 220 - Realtime Reporting V / Laboratory 5	_____	_____
• * RTR 226 - Judicial Procedures..... 3	_____	_____
• * RTR 227 - Moot Court Practicum I..... 5	_____	_____
• * RTR 230 – Realtime Application..... 2	_____	_____
• * RTR 257 - Moot Court Practicum II..... 5	_____	_____
• * RTR 270 - Realtime Reporting VI / Laboratory..... 5	_____	_____
• * RTR 275 - Realtime Reporting Internship 2	_____	_____
• RTR 184-189 Realtime Lab I-VI (Electives)..... 2	_____	_____
• RTR 295-299 Selected Topics in RTR (Electives) 5	_____	_____
*Required Courses		
Total Hours Required for Degree:.....75		

Notice(s): *Required by NCRA For the A.A.S. Degree in Realtime Reporting, the student must complete a minimum of 75 credit hours – a minimum of 57 in technical courses and a minimum of 18 in general education courses – all of which must be approved by the program advisor. Courses will be selected from those listed above. Admission Requirements: High school diploma or GED, a minimum score of 5 on the English portion and a minimum score of 70 on the reading portion of the ACCUPLACER Placement Test.

This program is offered at the East Broad Campus only.

****Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

REALTIME REPORTING—LITIGATION ASSISTANT SHORT-TERM CERTIFICATE

Advisors – East Broad Campus: Leah Elkins, Realtime Reporting Building (256.549.8693) lelkins@gadsdenstate.edu; Michelle Roberts, Realtime Reporting Building (256.549.8629) mroberts@gadsdenstate.edu ; Brooke Davis, Realtime Reporting Building (256.549-8694) brookedavis@gadsdenstate.edu

STUDENT PROGRESS

Required Courses:

	<u>Grade</u>	<u>Term Completed</u>
• RTR 110 - Realtime Reporting I / Laboratory.....5	_____	_____
• RTR 115 - Realtime Reporting Technology3	_____	_____
• RTR 130 - Realtime Reporting II / Laboratory.....5	_____	_____
• RTR 131 - Civil and Criminal Law and Terminology for Real Time Reporters3	_____	_____
• RTR 230 – Realtime Application2	_____	_____
• BIO 120 - Medical Terminology3	_____	_____
• ENG 131 - Applied Writing I.....3	_____	_____
• ORI 101 - Orientation to College or Elective.....1	_____	_____

Total Hours Required for Certificate:.....25

NOTICE(s): For the short-term certificate as Realtime Reporting Litigation Assistant, the student must complete the 25 credit hours from the courses listed above. All courses must be approved by the advisor. Admission Requirements: High school diploma or GED, a minimum score of 5 on the English portion and a minimum score of 70 on the reading portion of the ACCUPLACER Placement Test.

This program is offered at the East Broad Campus only.

REGISTERED NURSING A.A.S.

Nursing Concept Based Curriculum

Effective FALL 2017

Advisor – Wallace Drive Campus: Pam Mayo (256.549.8257) pmayo@gadsdenstate.edu

STUDENT PROGRESS		
	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition: 3		
• ENG 101 - English Composition I..... 3		
Area II – Humanities and Fine Arts:..... 3		
• Humanities elective 3		
Area III – Natural Sciences and Mathematics: 15		
• BIO 201 - Human Anatomy and Physiology I 4		
• BIO 202 - Human Anatomy and Physiology II 4		
• BIO 220 - General Microbiology..... 4		
• MTH 100 - Intermediate College Algebra OR Higher level Math (Math 116 is not a higher level Math) 3		
Area IV – History, Social and Behavioral Sciences:..... 3		
• PSY 210 - Human Growth and Development..... 3		
Area V – Professional, Major, & Elective Courses: 43		
• NUR 112 - Fundamental Concepts of Nursing 7		
• NUR 113 - Nursing Concepts I..... 8		
• NUR 114 - Nursing Concepts II..... 8		
• NUR 115 - Evidence Based Clinical Reasoning 2		
• NUR 211 - Advanced Nursing Concepts..... 7		
• NUR 221 - Advanced Evidence Based Clinical Reasoning..... 7		
• ORI 101 - Orientation to College..... 1		
• SPH 106 - Fundamentals of Oral Communication..... 3		
Total Hours Required for Degree 67		

NOTICE(s): Gadsden State Nursing Program follows the Alabama Community College System nursing curriculum.

"Comprehensive Assessment Plan" must be completed.

A grade of less than 75% in any required nursing course constitutes failure. A student may not progress in the program until all nursing courses are successfully completed in the required sequence. A student who has failed any required nursing course for any two semesters can request readmission one time only as a new student within one year of non-progression or reinstatement.

A minimum grade of "C" (70%) is required in each general education course in the program. A student who does not attain a grade of "C" in each general education course by the semester specified in the catalog/website will be dismissed from the program until the course is repeated and the required grade earned. After the required grade is earned, the student may apply for readmission, following the procedure in the catalog/website, www.gadsdenstate.edu. Academic Bankruptcy and course forgiveness may not be applied to NUR courses.

Mobility Students (LPN and Paramedic) will enroll in NUR 209 and upon successful completion may enroll for NUR 211 second semester followed by NUR 221.

SALON AND SPA MANAGEMENT A.A.S.

Advisors – Ayers Campus: Melinda White, Cosmetology Building (256.835.5412) mwhite@gadsdenstate.edu;
 J. Tracy Bonner, Cosmetology Building (256.832.1231) jbonner@gadsdenstate.edu
East Broad Campus: Kristina Clifton, Cosmetology Building (256.549.8626) kclifton@gadsdenstate.edu; Zora Garner,
 Cosmetology Building (256.549.8690) zgarner@gadsdenstate.edu

STUDENT PROGRESS

	Grade	Term Completed
Area I – Written Composition:.....3		
• ENG 101 - English Composition I.....3	_____	_____
Area II – Humanities and Fine Arts:3		
• Humanities and Fine Arts Elective*.....3	_____	_____
Area III – Natural Sciences or Mathematics:6		
• BIO 150- Human Biology OR Mathematics, Computer Science or Natural Science Elective ...3	_____	_____
• MTH 100 – Intermediate College Algebra OR Numerically higher3	_____	_____
Area IV – History, Social and Behavioral Sciences:3		
• Economics, Geography, History, Political Science, Psychology, or Sociology3	_____	_____
Area V – Technical Courses:52		
• CIS 146 – Microcomputer Applications3	_____	_____
• * COS 111 – Introduction to Cosmetology3	_____	_____
• * COS 112 – Introduction to Cosmetology Lab3	_____	_____
• * COS 114 – Chemical Services Lab3	_____	_____
• * COS 115 – Hair Coloring Theory3	_____	_____
• * COS 116 – Hair Coloring Lab.....3	_____	_____
• * COS 117 – Basic Spa Techniques3	_____	_____
• * COS 118 – Basic Spa Techniques Lab.....3	_____	_____
• * COS 123 – Cosmetology Salon Practices3	_____	_____
• * COS 142 – Applied Chemistry for Cosmetology Lab.....3	_____	_____
• * COS 143 – Specialty Hair Preparation Techniques3	_____	_____
• * COS 145 – Hair Shaping Lab3	_____	_____
• * COS 167 – State Board Review3	_____	_____
• * ORI 101 – Orientation to College1	_____	_____
• * SAL 133 - Salon Management Technology3	_____	_____
• * SAL 201–Entrepreneurship for Salon and Spa Management.3	_____	_____
• SPH 106 – Fundamentals of Oral Communication3	_____	_____
• * WKO 106 – Work Place Skills.....3	_____	_____
• COS Electives6	_____	_____

***Required Courses**

Total Hours Required for Degree:.....67

NOTICE(s): For the A.A.S. in Salon and Spa Management, the student must complete all of the 67 credit hours listed above—52 in technical courses and 15 in general education courses—all of which must be approved by the advisor. Required courses may vary to provide options and to meet the student needs. Admission Requirements: High School Diploma or GED.

***Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

SALON AND SPA MANAGEMENT - COSMETOLOGY CERTIFICATE

Advisors – Ayers Campus: Melinda White, Cosmetology Building (256.835.5412) mwhite@gadsdenstate.edu;
 J. Tracy Bonner, Cosmetology Building (256.832.1231) jbonner@gadsdenstate.edu
East Broad Campus: Zora Garner, Cosmetology Building (256.549.8690) zgarner@gadsdenstate.edu
 Kristina Clifton (256.549.8626) kclifton@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition: 3		
• ENG 101 - English Composition I 3	_____	_____
Area II – Humanities and Fine Arts: 0		
Area III – Natural Science or Mathematics: 3		
• MTH 100 - Intermediate College Algebra OR numerically higher 3	_____	_____
Area IV — History, Social and Behavioral Sciences:0		
Area V – Technical Courses:..... 43		
• CIS 146 - Microcomputer Applications 3	_____	_____
• * COS 111 - Introduction to Cosmetology 3	_____	_____
• * COS 112 - Introduction to Cosmetology Lab 3	_____	_____
• * COS 114 - Chemical Services Lab 3	_____	_____
• * COS 115 - Hair Coloring Theory 3	_____	_____
• * COS 116 - Hair Coloring Lab 3	_____	_____
• * COS 117 - Basic Spa Techniques 3	_____	_____
• * COS 118 - Basic Spa Techniques Lab 3	_____	_____
• * COS 123 - Cosmetology Salon Practices 3	_____	_____
• * COS 142 - Applied Chemistry for Cosmetology Lab 3	_____	_____
• * COS 143 - Specialty Hair Preparation Techniques 3	_____	_____
• * COS 145 – Hair Shaping Lab 3	_____	_____
• * ORI 101 - Orientation to College 1	_____	_____
• * SAL 133 – Salon Management and Technology 3	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____
• COS Electives 6	_____	_____

***Required Courses**

Total Hours Required for Certificate:.....49

NOTICE(s): For the certificate in Salon and Spa Management Cosmetology Technology, the student must complete all of the 49 credit hours listed above– 43 in technical courses and 6 in general education courses – all of which must be approved by the advisor. Required courses may vary to provide options and to meet student needs. The courses are listed above. Admission Requirements: High School Diploma or GED.

SALON AND SPA MANAGEMENT - BARBERING SHORT-TERM CERTIFICATE

Advisors – East Broad Campus: Zora Garner, Cosmetology Building (256.549.8690) zgarner@gadsdenstate.edu
 Kristina Clifton (256.549.8626) kclifton@gadsdenstate.edu

STUDENT PROGRESS

Grade Term Completed

Required Technical Courses:

• BAR 108 – Introduction to Barbering	3	_____	_____
• BAR 109 – Bacteriology and Sanitation	3	_____	_____
• BAR 111 – Introduction to Barbering Lab.....	3	_____	_____
• BAR 112 – Science of Barbering	3	_____	_____
• BAR 113 – Fundamentals of Barbering Applications.....	3	_____	_____
• BAR 114 – Barbering Styling Lab	3	_____	_____
• BAR 120 – Properties of Chemistry	3	_____	_____
• BAR 121 – Chemical Hair Processing	3	_____	_____
• SAL 133 – Salon Management Technology	3	_____	_____
• ORI 101 - Orientation to College	1	_____	_____

Total Hours Required for Certificate28

NOTICE(s): For the short-term certificate in Salon and Spa Management Barbering Technology, the student must complete all of the 28 credit hours listed above—all of which must be approved by the advisor. Required courses may vary to provide options and to meet the student needs. Courses will be selected from those listed above. Admission Requirements: High School Diploma or GED.

This program is offered at the East Broad Campus only.

SALON AND SPA MANAGEMENT - COSMETOLOGY ESTHETICS SHORT-TERM CERTIFICATE

Advisors – East Broad Campus: Zora Garner, Cosmetology Building (256.549.8690) zgarner@gadsdenstate.edu
 Kristina Clifton (256.549.8626) kclifton@gadsdenstate.edu

STUDENT PROGRESS

Grade Term Completed

Required Technical Courses:

• COS 134 - Advanced Esthetics.....	3	_____	_____
• COS 135 - Advanced Esthetics Applications.....	3	_____	_____
• COS 163 - Facial Treatments	3	_____	_____
• COS 164 - Facial Machine.....	3	_____	_____
• COS 165 - Related Subjects Estheticians.....	3	_____	_____
• COS 168 - Bacteriology and Sanitation	3	_____	_____
• COS 169 - Skin Functions.....	3	_____	_____
• SAL 133 - Salon Management Technology.....	3	_____	_____
• ORI 101 - Orientation to College.....	1	_____	_____

Total Hours Required for Certificate 25

NOTICE(s): For the short-term certificate in Salon and Spa Management Esthetics Technology, the student must complete all of the 25 credit hours listed above—all of which must be approved by the advisor. Required courses may vary to provide options and to meet student needs. Courses will be selected from those listed above. Admission Requirements: High School Diploma or GED.

This program is offered at the East Broad Campus only.

SALON AND SPA MANAGEMENT - COSMETOLOGY NAIL TECHNOLOGY SHORT-TERM CERTIFICATE

Advisors – East Broad Campus: Zora Garner, Cosmetology Building (256.549.8690) zgarner@gadsdenstate.edu
Kristina Clifton (256.549.8626) kclifton@gadsdenstate.edu

STUDENT PROGRESS

Grade Term Completed

Required Technical Courses:

- COS 150 - Manicuring..... 3
- COS 151 - Nail Care..... 3
- COS 152 - Nail Care Applications..... 3
- COS 153 - Nail Art 3
- COS 154 - Nail Art Applications 3
- COS 181 – Special Topics 3
- COS 182 - Special Topics..... 3
- SAL 133 – Salon Management Technology 3
- ORI 101 - Orientation to College 1

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
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_____	_____
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_____	_____

Total Hours Required for Certificate:..... 25

NOTICE(s): For the short-term certificate in Salon and Spa Management Nail Technology, the student must complete all of the 25 credit hours listed above—all of which must be approved by the advisor. Required courses may vary to provide options and to meet student needs. Courses will be selected from those listed above. Admission Requirements: High School Diploma or GED.

This program is offered at the East Broad Campus only.

SURGICAL/OPERATING ROOM TECHNICIAN SHORT-TERM CERTIFICATE

Advisor – McClellan Center: Brenda Young, (256.238.9372) byoung@gadsdenstate.edu

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
Area III – Natural Sciences and Mathematics: 7		
• BIO 206 - Human Anatomy 4	_____	_____
• MTH 116 - Mathematical Applications 3	_____	_____
Area V – Professional, Major and Elective Courses:..... 21		
• ORI 101 - Orientation to College..... 1	_____	_____
• HPS 100 - Safety Issues for Clinical Practice 1	_____	_____
• HPS 105 - Medical Terminology..... 3	_____	_____
• SUR 101 - Introduction to Surgical Technology 3	_____	_____
• SUR 102 - Applied Surgical Techniques 4	_____	_____
• SUR 103 - Surgical Procedures 5	_____	_____
• SUR 104 - Surgical Practicum I 4	_____	_____
Total Hours Required for Degree: 28		

NOTICE(s): Subject to change due to statewide standardization of Surgical/Operating Room Technician program(s)

This program is offered at the McClellan Center only.

WELDING TECHNOLOGY CERTIFICATE

Advisors – Ayers Campus: Gary Udaka, Welding Technology Building (256.835.5426) gudaka@gadsdenstate.edu
 S. Bart Smith, Welding Technology Building (256.835.5480) sbsmith@gadsdenstate.edu
East Broad Campus: Frank Miller, Welding Technology Building (256.549.8653) fmiller@gadsdenstate.edu
 Darren McCrary, Welding Technology Building (256.549.8657) dmccrary@gadsdenstate.edu

	STUDENT PROGRESS	
	<u>Grade</u>	<u>Term Completed</u>
Area I – Written Composition:.....3		
• COM 100 - Vocational / Technical English OR		
ENG 101 - English Composition I 3	_____	_____
Area II – Humanities and Fine Arts:0		
Area III – Natural Science or Mathematics:.....3		
• MAH 101 - Introductory Mathematics I OR		
MTH 100 - Intermediate College Algebra OR		
numerically higher 3	_____	_____
Area IV – History, Social and Behavioral Sciences:.....0		
Technical Specialty Approved Area V Electives:.....52		
• DPT 100 - Introductory Computer Skills I OR		
CIS 146 - Microcomputer Applications 3	_____	_____
• * ORT 100 - Orientation for Career Students 1	_____	_____
• SPC 103 - Oral Communication Skills OR		
SPH 106 - Fundamentals of Oral Communication 3	_____	_____
• WDT 108 - SMAW Fillet/OFC 3	_____	_____
• WDT 109 - SMAW Fillet/PAC/CAC..... 3	_____	_____
• WDT 110 - Industrial Blueprint Reading 3	_____	_____
• WDT 115 - GTAW Carbon Pipe 3	_____	_____
• WDT 116 - GTAW Stainless Pipe..... 3	_____	_____
• WDT 119 - Gas Metal Arc/Flux Cored Arc Welding 3	_____	_____
• WDT 120 - Shielded Metal Arc Welding Groove 3	_____	_____
• WDT 122 - SMAW Fillet/OFC Lab 3	_____	_____
• WDT 123 - SMAW Fillet/PAC/CAC Lab 3	_____	_____
• WDT 124 - Gas Metal Arc/Flux Cored Arc Welding Lab..... 3	_____	_____
• WDT 125 - Shielded Metal Arc Welding Groove Lab..... 3	_____	_____
• WDT 155 - GTAW Carbon Pipe Lab..... 3	_____	_____
• WDT 156 - GTAW Stainless Pipe Lab 3	_____	_____
• WDT 157 - Consumable Welding Processes..... 3	_____	_____
• WDT 158 - Consumable Welding Processes Lab 3	_____	_____
• WDT 160 – Robotic Programming & Welding 3	_____	_____
• WDT 162 – Consumable Welding Applications 3	_____	_____
• WDT 163 – Consumable Welding Applications Lab..... 3	_____	_____
• WDT 166 - Flux Core Arc Welding (FCAW) 3	_____	_____
• WDT 167 – Flux Core Arc Welding Lab 3	_____	_____

WELDING TECHNOLOGY CERTIFICATE continued

STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
• WDT 180 - Special Topics OR		
WDT 181 - Special Topics Lab OR		
WDT 182 - Special Topics3	_____	_____
• WDT 183 - Special Topics2	_____	_____
• WDT 183 M - Special Topics Lab3	_____	_____
• WDT 184 – Special Topics1	_____	_____
• WDT 185 – Special Topics Lab3	_____	_____
• WDT 193 - Co-Op OR		
WDT 291 - Co-Op OR		
WDT 292 - Co-Op.....3	_____	_____
• WDT 217 - SMAW Carbon Pipe3	_____	_____
• WDT 218 - Certification3	_____	_____
• WDT 219 - Welding Inspection & Testing.....3	_____	_____
• WDT 221 - Pipefitting and Fabrication3	_____	_____
• WDT 223 - Blueprint Reading for Fabrication3	_____	_____
• WDT 228 - Gas Tungsten Arc Welding3	_____	_____
• WDT 229 - Boiler Tube3	_____	_____
• WDT 230 - Orbital Gas Tungsten Arc Welding3	_____	_____
• WDT 240 - Orbital Gas Tungsten Arc Welding Lab.....3	_____	_____
• WDT 250 - Pipe Preparation for Orbital Welding Lab3	_____	_____
• WDT 257 - SMAW Carbon Pipe Lab.....3	_____	_____
• WDT 258 - Certification Lab3	_____	_____
• WDT 268 - Gas Tungsten Arc Lab3	_____	_____
• WDT 269 - Boiler Tube Lab.....3	_____	_____
• WDT 281 - Special Topics in Welding Technology.....3	_____	_____

***Required Course**

Total Hours Required for Certificate:.....58

NOTICE(s): For the certificate in Welding Technology, the student must complete a minimum of 58 credit hours – 52 in technical courses and 6 in general education courses – all of which must be approved by the advisor. Required courses may vary to provide options and to meet student needs. Courses will be selected from those listed above. Admission Requirement: The student must be age 17 or older.

WELDING TECHNOLOGY PIPE TUBE WELDING SHORT-TERM CERTIFICATE

Advisors - Ayers Campus: Gary Udaka, Welding Technology Building (256.835.5426) gudaka@gadsdenstate.edu;
S. Bart Smith, Welding Technology Building (256.835.5480) sbsmith@gadsdenstate.edu
East Broad Campus: Frank Miller, Welding Technology Building (256.549.8653) fmiller@gadsdenstate.edu;
Darren McCrary, Welding Technology Building (256.549.8657) dmccrary@gadsdenstate.edu

STUDENT PROGRESS

Grade Term Completed

Required Courses:

• WDT 115 – GTAW Carbon Pipe.....	3	_____	_____
• WDT 116 – GTAW Stainless Pipe	3	_____	_____
• WDT 120 – Shielded Metal Arc Welding Groove.....	3	_____	_____
• WDT 125 – Shielded Metal Arc Welding Groove Lab	3	_____	_____
• WDT 155 – GTAW Carbon Pipe Lab	3	_____	_____
• WDT 156 – GTAW Stainless Pipe Lab.....	3	_____	_____
• WDT 217 – SMAW Carbon Pipe.....	3	_____	_____
• WDT 221 – Pipefitting and Fabrication	3	_____	_____
• WDT 228 – Gas Tungsten Arc Welding	3	_____	_____
• WDT 229 – Boiler Tube.....	3	_____	_____
• WDT 230 – Orbital Gas Tungsten Arc Welding.....	3	_____	_____
• WDT 257 – SMAW Carbon Pipe Lab	3	_____	_____
• WDT 268 – Gas Tungsten Arc Lab.....	3	_____	_____
• WDT 269 – Boiler Tube Lab	3	_____	_____
• * ORT 100 - Orientation for Career Students.....	1	_____	_____

***Required Course**

Total Hours Required for Certificate: 28

NOTICE(s): For the Pipe and Tube Welding short-term certificate in Welding Technology, the student must complete 28 of the 43 credit hours listed above. All courses must be approved by the advisor. Admission Requirement: The student must be age 17 or older.

WELDING TECHNOLOGY SHORT-TERM CERTIFICATE

Advisors – Ayers Campus: Gary Udaka, Welding Technology Building (256.835.5426) gudaka@gadsdenstate.edu;
 S. Bart Smith, Welding Technology Building (256.835.5480) sbsmith@gadsdenstate.edu

East Broad Campus: Frank Miller, Welding Technology Building (256.549.8653) fmiller@gadsdenstate.edu;
 Darren McCrary, Welding Technology Building (256.549.8657) dmccrary@gadsdenstate.edu

STUDENT PROGRESS

Grade Term Completed

Required Courses:

• WDT 108 - SMAW Fillet/OFC	3	_____	_____
• WDT 109 - SMAW Fillet/PAC/CAC	3	_____	_____
• WDT 110 - Industrial Blueprint Reading	3	_____	_____
• WDT 119 - Gas Metal Arc/Flux Cored Arc Welding	3	_____	_____
• WDT 122 - SMAW Fillet/OFC Lab.....	3	_____	_____
• WDT 123 - SMAW Fillet/PAC/CAC Lab.....	3	_____	_____
• WDT 124 - Gas Metal Arc/Flux Cored Arc Welding Lab.....	3	_____	_____
• WDT 157 - Consumable Welding Processes	3	_____	_____
• WDT 158 - Consumable Welding Processes Lab.....	3	_____	_____
• WDT 160 – Robotic Programming and Welding	3	_____	_____
• WDT 162 – Consumable Welding Applications	3	_____	_____
• WDT 163 – Consumable Welding Applications Lab.....	3	_____	_____
• WDT 166 - Flux Core Arc Welding (FCAW)	3	_____	_____
• WDT 167 – Flux Core Arc Welding Lab	3	_____	_____
• * ORT 100 - Orientation for Career Students.....	1	_____	_____

***Required Course**

Total Hours Required for Certificate: 28

NOTICE(s): For the short-term certificate in Welding Technology, the student must complete 28 credit hours from the 43 credit hours listed above. All courses must be approved by the advisor. Admission Requirement: The student must be age 17 or older.

WORD PROCESSING SPECIALIST SHORT-TERM CERTIFICATE

Advisors – Ayers Campus: Fay Scott (256.439.6876) fscott@gadsdenstate.edu
Wallace Drive Campus: Fay Scott (256.439.6876) fscott@gadsdenstate.edu;
 Larrhea Sims (256.439.6904) lsims@gadsdenstate.edu

STUDENT PROGRESS

Grade Term Completed

Area V – Professional, Major and Elective Courses:.....25

• ORI 101 - Orientation to College	1	_____	_____
• CIS 146 - Microcomputer Applications.....	3	_____	_____
• CIS 147 - Advanced Micro Applications.....	3	_____	_____
• OAD 101 - Beginning Keyboarding	3	_____	_____
• OAD 103 - Intermediate Keyboarding.....	3	_____	_____
• OAD 104 - Advanced Keyboarding	3	_____	_____
• OAD 125 - Word Processing	3	_____	_____
• OAD 126 - Advanced Word Processing	3	_____	_____
• OAD 218 - Office Procedures	3	_____	_____

Total Hours Required for Certificate: 25

NOTICE(s): Students should 1) consult with an advisor and 2) refer to the Statewide Transfer and Articulation Reporting Systems (STARS) located at <http://stars.troy.edu/> and the degree requirements of the intended transfer institution.

ADDITIONAL PROGRAM INFORMATION

Division of Health Sciences

Emergency Medical Services

The College offers three related programs in this career area leading to the Associate in Applied Science degree in Emergency Medical Services (EMS) and three institutional program certificates in EMT, Advanced EMT and Paramedic.

The Emergency Medical Services Program is accredited by the Committee on Accreditation of Allied Health Programs (CAAHEP), 1361 Park Street, Clearwater, FL 33756; telephone: 727.210.2350; fax: 727.210.2354; website: www.caahep.org by recommendation from the Committee on Accreditation of Educational Programs for the EMS Profession of Allied Health Programs (CoAEMSP), 4101 Oaks Blvd., #305-599, Arlington, TX 76016; telephone: 817.330.0080; fax: 817.330.0089; website: www.coaemsp.org and by the State of Alabama Department of Public Health Office of Emergency Medical Services and Trauma (ADPH-OEMST) RSA Tower, 201 Monroe Street, Suite 750, Montgomery, AL 36104; telephone: 334.206.5383; fax: 334.206.5260; www.adph.org. For information about the program, individuals may visit www.gadsdenstate.edu/academics/health/ems.php or contact the Director at 256.549.8654, or via e-mail at pbrown@gadsdenstate.edu.

Healthcare Linkage Programs

The Division of Health Sciences has articulation agreements with Jefferson State Community College and Wallace State Community College—Hanceville for various healthcare programs not offered at GSCC. Further information can be obtained by calling 256.549.8257.

Massage Therapy Program

The Therapeutic Massage Program, which is approved by the Alabama Board of Massage Therapy (telephone number 334.269.9990; website www.almtbd.state.al.us) is a short-certificate (29 credit hours; 720 contact hours) program that prepares students to become successful practicing bodyworkers by giving them broad knowledge of Western theories and techniques. Upon successful completion of the program, graduates are eligible to write the MBLEx (Massage and Bodywork Licensing Exam) exam through the Federation of State Massage Therapy Boards (website www.fsmtb.org). The Gadsden State Community College Massage Therapy Program is accredited through COMTA (Commission on Massage Therapy Accreditation, 5335 Wisconsin Avenue NW, Suite 440, Washington, D.C. 20015, telephone number 202.895.1518). Program information is available at <http://www.gadsdenstate.edu/tmp/home>.

Medical Laboratory Technology Program

Medical laboratory technicians (MLTs) perform tests that analyze a variety of clinical specimens that include blood, tissues, urine, and other body fluids. They use complex instruments, specialized techniques, and scientific knowledge to provide critical information for diagnosis, treatment, and preventative health care. MLTs perform routine laboratory

tests, perform and evaluate quality control tests, perform calibration and preventative maintenance of laboratory instruments and report test results. In addition, MLTs work with other health-care professionals, including physicians, by providing appropriate information to establish modern, cost-effective diagnostic test profiles. Medical laboratory personnel are part of the health-care team and must communicate effectively with patients, other health-care professionals, and the public.

This program, which is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (5600 N. River Road, Suite 720, Rosemont, IL 60018; phone 773.714.8880; fax 773.714.8886; website: www.naacls.org), entails a five-semester/term curriculum leading to an Associate in Applied Science degree in Medical Laboratory Technology (MLT). Graduates of this program are eligible to write the registry examination offered for certification by the American Society of Clinical Pathologists (ASCP) or by the American Medical Technologist (AMT). After passing the examination, graduates are certified as registered Medical Laboratory Technicians. This certification ensures professional status. For information regarding the Medical Laboratory Technology Program, individuals should visit the MLT Program website (<https://www.gadsdenstate.edu/mlt/home>) or call 256.549.8217.

Practical Nursing—General Information

The Nursing Education Program is a concept based curriculum which is a stackable credential that can be completed in five semesters. If the student wishes to complete the Licensed Practical Nurse (LPN) Degree only, the student must successfully complete NUR 112, 113, 114 and 115. These classes can be taken in three semesters. Once NUR 114 and NUR 115 are completed the student may sit for the NCLEX PN exam. If the student wishes to complete the ADN, they may continue and complete the last two semesters. Should the student drop out of sequence upon completing the LPN component, the student has one year in which to reapply to complete the ADN. Summer admission for the nursing program will be at the Cherokee Campus for day classes. Fall admission will be at the Wallace Drive Campus for day classes and Cherokee Campus for night classes.

Gadsden State's Practical Nursing Program, which is approved by the Alabama Board of Nursing (RSA Plaza St 250, 770 Washington Ave., Montgomery, AL 36104; telephone 1.800.656.5318; website: www.abn.state.al.us), and is accredited by the Accreditation Commission for Education in Nursing (3343 Peachtree Road, NE, Suite 850, Atlanta, Georgia 30326; telephone: 404.975.5000; fax 404.975.5020; website www.acenursing.org) is a certificate program that prepares students in the theoretical and clinical practice of basic bedside nursing.

Upon satisfactory completion of the program, graduates are eligible to write the National Council Licensure Examination for Practical Nurses (NCLEX-PN). After passing the examination, graduates will carry the title "Licensed Practical Nurse." Advisors are available in Helderman Hall on the Wallace Drive Campus (256.549.8257). Applicants are admitted without regard to sex, race, color, national origin, marital status, age, or religious preference. For more information on the Practical Nursing Program, those interested should visit http://www.gadsdenstate.edu/nursing_education/home-rn-lpn or www.gadsdenstate.edu. (*Health Science* appears under *Academic*)

Mission

The mission of the nursing programs of the Alabama Community College System is to prepare graduates to practice safe, competent, patient-centered care in an increasingly complex and rapidly changing health care system. We seek to provide full and equal access to opportunities for educational success to meet the community needs.

Registered Nursing - General Information

The Registered Nursing Program is approved by the Alabama Board of Nursing (RSA Plaza St 250, 770 Washington Ave., Montgomery, AL 36104; telephone 1.800.656.5318; website: www.abn.state.al.us) and accredited by the Accreditation Commission for Education in Nursing (3343 Peachtree Road, NE, Suite 850, Atlanta, Georgia 30326; telephone: 404.975.5000; fax: 404.975.5020); website: www.acenursing.org to offer the A.A.S. degree in nursing. This career-entry program, to which qualified applicants are admitted without regard to sex, race, color, national origin, marital status, age, or religious preference, is a five-semester/term sequence of laboratory and classroom education and clinical experiences. Students are also able to negotiate a curriculum plan that allows completion of the program part-time. Successful completion of this program prepares graduates to write the National Council Licensure Examination (NCLEX-RN) for licensure and practice as Registered Nurses. For more information on the Registered Nursing Program, those interested should visit the website: http://www.gadsdenstate.edu/nursing_education/home-rn-lpn. (*Health Science* appears under *Academics*.)

Mission

The mission of the nursing programs of the Alabama Community College System is to prepare graduates to practice safe, competent, patient-centered care in an increasingly complex and rapidly changing health care system. We seek to provide full and equal access to opportunities for educational success to meet the community needs.

Phlebotomy Training Program

For information regarding the Phlebotomy Training Program, individuals should visit the Program website (<http://www.gadsdenstate.edu/phlebotomy/phlebotomy>) or call 256.549.8217.

Radiologic Technology Program

The Radiologic Technologist (Radiographer) uses imaging equipment to produce radiographic images of portions of the human body as prescribed by physicians for use in diagnosing medical problems. When providing these services, radiographers prepare the patient for radiologic examinations by explaining the procedure and properly positioning the patient for the correct exposure. Radiographers utilize problem solving and critical thinking skills to perform medical imaging procedures to ensure that the physician receives the necessary information to make an appropriate diagnosis. By using variable technical parameters and measurements, the radiographer can produce quality diagnostic images while preventing unnecessary radiation exposure.

Professional competence requires that radiographers apply knowledge of anatomy, physiology, positioning, radiographic technique, and radiation biology and protection in the performance of their responsibilities. Because radiographers are an integral part of the healthcare team, they must also be able to communicate effectively with patients, other health professionals, and the public.

This Program, which is accredited by the Joint Review Committee on Education in Radiologic Technology, entails a five-semester curriculum leading to an Associate in Applied Science degree in Radiologic Technology. Graduates of this Program are eligible to write the registry examination offered for certification by the American Registry of Radiologic Technologists. After passing this examination, the graduate

will be certified as a registered technologist in radiography. The certificate of registration carries with it the privilege of using the title "Registered Technologist" and of using the abbreviation R.T.(R) (ARRT). For information regarding the Radiologic Technology Program, individuals should visit <http://www.gadsdenstate.edu/rad-tech/home> or call 256.549.8217 (for the most current information).

Surgical/Operating Room Technology

Special program information for the Surgical/Operating Room Technology Program is available at <http://www.gadsdenstate.edu/health/surgical-operating-room-technician>.

Skills Training Division

Prospective students should be aware of the following information regarding the programs offered by the Skills Training Division:

- The statements in this catalog and student handbook are informational only; they are NOT the basis of a contract between the student and the College. Although Gadsden State will try to do what this book says that it will do and make every effort to let students know about the changes, the College has the right to change any provision without notifying a student individually. If it becomes necessary for the College to abolish the program in which a student is enrolled, the College may substitute a limited number of courses in order for the student to complete that program.
- The Skills Training Division provides short-term non-credit, competency-based training programs coordinated through Gadsden State's Skills Training Center located on the East Broad Campus. All training programs within this Division are measured by contact hours rather than semester hours. Students may register for classes at any time throughout the year and may continue until the appropriate skills have been attained. For more information, call 256.549.8640 or 256.549.8638.
- Students who complete training programs within this division will be awarded an institutional certificate of completion documenting the area of training.

Skills Training Programs of Study

Air Conditioning and Refrigeration

This program prepares individuals to apply technical skills and knowledge to repair, install, service, and maintain the operation of heating, air conditioning, and refrigeration systems.

- Refrigeration Transition and Recovery
- Air Conditioning Systems
- Heating Systems
- Heat Pumps

Auto Body

This program prepares individuals to apply technical skills and knowledge to repair and refinish automobiles.

- Surface Preparation
- Paint Mixing, Matching and Applying
- Refinishing

Certified Nursing Assistant

This program prepares students in the theoretical and clinical practice of nursing assistance. The focus of this program is to graduate nursing assistants who possess technical skills to provide competent care as well as compassion, and the

communication and critical thinking skills needed to function effectively in the health care setting. Successful completers are eligible to take the certification exam for nursing assistants.

Electrician Assistant

This program prepares students to apply knowledge and skills to assist electricians with wiring methods, materials and associated NED requirements within residential and commercial wiring practices

- Wiring Components
- Wiring Methods
- Cable Connections
- Metering
- Conduits
- Bending Techniques

Machine Trades

The program prepares students to apply knowledge and skills to plan, manufacture, assemble, test and repair parts, mechanisms, machines and structures in which materials are cast, formed, shaped, molded, heat treated, cut, twisted, pressed, fused, stamped or worked.

- Lathes
- Advanced Lathes
- Milling Machines
- Advanced Milling Machines
- Grinding Machines
- Computer Numerical Control

Office Careers

This program prepares individuals to perform the duties of administrative assistants or secretaries, including in the instruction are data processing, data entry, office machines, filing, accounting, record management, word processing, spreadsheet, database and desktop publishing.

- Receptionist
- General Office Assistant
- Administrative Assistant
- Accounting Technician
- Medical Office Assistant
- Legal Office Assistant
- Computer Support Specialist

Ready to Work (RTW)

Alabama's Ready to Work (RTW)

Alabama's Ready to Work program provides a career pathway for adults with limited employment experience. Ready

to Work's workplace environment provides trainees the entry-level skills required for employment with most businesses and industries in Alabama. Successful completers earn an Alabama Certified Worker (ACW) Certificate or a Career Readiness Credential (CRC).

- Communication Skills and Customer Service
- Basic Education
- Computer Skills
- Problem Solving Skills
- Workplace Behavior
- Manufacturing
- Job Acquisition

Truck Driving

This program prepares individuals to apply technical knowledge and skills to drive trucks and buses, delivery vehicles and other commercial vehicles. Successful completers earn a Class A Commercial Driver's License (CDL).

Welding

This program prepares individuals to apply technical knowledge and skill to unite or separate parts by heating, using a variety of techniques and equipment, such as brazing, arc, gas and laser operations.

- Shielded Metal Arc Structural and Pipe Welding
- Gas Metal Arc Fillet Welding
- Gas Tungsten Arc Welding
- Blueprint Reading for Fabrication