

This is an articulation pathway with Mississippi University for Women and East Mississippi Community College's Manufacturing Technology Engineering Division consisting of: Automation and Control Technology, Automotive Technology, Drafting and Design Technology, Electrical Technology, Electro-Mechanical Technology, Electronics Technology, Mechatronics Technician, Precision Machining Technology, Welding Technology and Welder/Fabricator Technician Associate of Applied Science Programs to allow for growth and flexibility for the students in this program. This will help guide and facilitate students through the program and transition to a university degree. This articulation was developed through the Trade Adjustment Assistance Community College and Career Training (TAACCCT) Grant Program Round 3 Grant *Golden Triangle Modern Manufacturing Project TC-25149-13-60-A-28*.

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East Mississippi Community College

Automation and Control Technology Career Certificate to AAS to BT Degrees

- Career Certificate – 30 hours, courses listed below, earned at EMCC
- Technical Certificate – 15 additional hours, courses listed below, earned at EMCC
- Associate of Applied Science in Automation and Control Technology, 15 hours of university parallel courses earned at EMCC.
- Bachelor of Technology in Professional Studies,

East Mississippi Community College

Automation and Control Technology provides students with the technical knowledge and skills necessary to gain employment as an automated manufacturing systems technician in maintenance, diagnostics, engineering, or production in an automated manufacturing environment. The focus of this program is on electricity, electronics, industrial computer programming, pneumatics, hydraulics, robotics, programmable controls, interfacing techniques, instrumentation, and automated machine processes.

It embeds opportunities to acquire credentials through the National Center for Construction Education and Research (NCCER).

Career Certificate – 30 hours

EET 1114- DC Circuits	4
EET 1334- Solid State Devices & Circuits	4
EET 1214 –Digital Electronics	4
MFT 1112 – Introduction to Automation and Controls	2
EET 1123 – AC Circuits	3
ELT 1413- Motor Control Systems	3
INT 1214 – Fluid Power	4
ELT 1123 – Commercial and Industrial Wiring	3
ELT 2613 – Programmable Logic Controllers	3

Technical Certificate –45 hours

INT 2114 Controls Systems I	4
Computer Related Elective	3
Technical Electives	8

Associate of Applied Science degree – 60 hours

English Composition I	3
Humanities/Fine Arts	3
Social/Behavioral Sciences	3
Math/Science	3
Public Speaking I	3

Mississippi University for Women

The General Business concentration is designed for community college transfer students who wish to obtain a breadth of knowledge in the fundamentals of business. This concentration offers students the opportunity to earn a degree in business without specializing a particular field.

Bachelor of Technology – 124 hours

Professional Studies

General Business Concentration

Community College Transfer (up to 62 hours)

Career/Technical Transfer (up to)	43
General Education Requirement	4
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3

First Semester – 15 hours

MIS 160 Spreadsheet Applications	3
EC 201 Principles of Economics	3
ACC 211 Principles of Accounting	3
General Education Requirement	3
General Education Requirement	3

Second Semester – 17 hours

BQA 170 Statistical Analysis for Business	3
ACC 212 Principles of Accounting II	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3
General Education Requirement	2

Third Semester – 15 hours

MKT 361 Principles of Marketing	3
MGT 381 Principles of Management	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

Fourth Semester – 15 hours

PLG 241 Legal Environment of Business	3
MGT 460 Senior Seminar in Business	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

This curriculum is a sample and is intended to be a tentative guideline for the order in which courses should be taken to fulfill the requirements of the major. Community college transfer students must earn at least 50 percent of their academic credits from a senior institution, including at least 25 percent of those hours from MUW, and complete all other degree requirements. 12 of the 18 business elective hours must be completed at the 300-level or above.

East Mississippi Community College

Automotive Technology Certificate to Technical Certificate to AAS to BT Degrees

- Career Certificate – 34 hours, courses listed below, earned at EMCC
- Technical Certificate – 13 additional hours, courses listed below, earned at EMCC
- Associate of Applied Science in Automotive Technology, 15 hours of university parallel courses earned at EMCC.
- Bachelor of Technology in Professional Studies,

East Mississippi Community College

Automotive Technology provides the graduate with the basic skills and the technical knowledge to diagnose properly and repair late model vehicles, along with problem-solving techniques, and computer diagnosis. Automotive classes/laboratories and academic coursework are taught during the second year of study.

Practical experience is given in the following automotive service and repair areas as recognized by ASE and NATEF: engine repair, automotive transmissions, manual drive trains and axles, suspension and steering; brakes, electrical/electronic systems, heating and air-conditioning systems and engine performance systems.

All necessary tools for laboratory experiences will be provided by the college; however, for job placement purposes, students in this program are required to furnish their own set of tools by the second semester of the program. Each student will be responsible for purchasing a lab coat to be worn while performing shop activities. An approved list of lab coat options will be provided by the program

Career Certificate – 34 hours

ATT 1124-Electrical Systems	4
ATT 1214- Brakes	4
ATT 1314 –Manual Drive-Trains/Transaxle	4
ATT 1424 – Basic Engine Performance I	4
ATT 1811 – Introduction, Safety, and Employability Skills	1
ATT 1134 – Advanced Electrical Systems	4
ATT2434- Engine Performance II	4
ATT 1715 – Engine Repair	5
ATT2334 – Steering and Suspension Systems	4

Technical Certificate –47 hours

ATT 2325 Automatic Transmissions/Transaxles	5
ATT 2614 Heating and Air Conditioning	4
ATT 2444 Engine Performance III	4

Associate of Applied Science degree – 60 hours

English Composition I	3
Humanities/Fine Arts	3
Social/Behavioral Sciences	3
Math/Science	3
Public Speaking I	3

Mississippi University for Women

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Bachelor of Technology – 124 hours

Professional Studies

General Business Concentration

Community College Transfer (up to 62 hours)

Career/Technical Transfer (up to)	43
General Education Requirement	4
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3

First Semester – 15 hours

MIS 160 Spreadsheet Applications	3
EC 201 Principles of Economics	3
ACC 211 Principles of Accounting	3
General Education Requirement	3
General Education Requirement	3

Second Semester – 17 hours

BQA 170 Statistical Analysis for Business	3
ACC 212 Principles of Accounting II	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3
General Education Requirement	2

Third Semester – 15 hours

MKT 361 Principles of Marketing	3
MGT 381 Principles of Management	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

Fourth Semester – 15 hours

PLG 241 Legal Environment of Business	3
MGT 460 Senior Seminar in Business	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

This curriculum is a sample and is intended to be a tentative guideline for the order in which courses should be taken to fulfill the requirements of the major. Community college transfer students must earn at least 50 percent of their academic credits from a senior institution, including at least 25 percent of those hours from MUW, and complete all other degree requirements. 12 of the 18 business elective hours must be completed at the 300-level or above.

East Mississippi Community College

Drafting and Design Technology AAS to BT Degrees

- Associate of Applied Science in Drafting and Design Technology, 70 hours earned at EMCC.
- Bachelor of Technology in Professional Studies,

East Mississippi Community College

The Drafting and Design Technology curriculum prepares the student for employment in the field of technical graphical representation. The classroom training provides a sound foundation in the basics of drafting practice and is closely related to actual industrial standards. The subjects taught include architectural drafting, machine drafting, surveying, civil drafting, and computer-aided drafting. In order to meet industrial demands, computer-aided drafting is the basis of all courses.

Completion of the two-year program leads to an Associate of Applied Science degree. As part of this degree program, students will also be able to take the Autodesk Certified User Exam.

Associate of Applied Science degree- 70 hours

DDT 1113 Fundamentals of Drafting	3
DDT 1133 Machine Drafting I	3
DDT 1213 Construction Materials	3
DDT 1313 Principles of CAD	3
DDT 1323 Intermediate CAD	3
DDT 1413 Elementary Surveying	3
DDT 1613 Architectural Design I	3
DDT 2233 Structural Drafting	3
DDT 2243 Cost Estimating	3
DDT 2253 Statics and Strength of Materials	3
DDT 2343 Advanced CAD	3
DDT 2423 Mapping and Topography	3
DDT 2623 Architectural Design II	3
DDT 2913 Special Projects in Design	3
BOT 1213 Professional Development	3
CPT 1113 Microcomputer Applications	3
English Composition I	3
Humanities/Fine Arts	3
Social/Behavioral Sciences	3
College Algebra	3
Trigonometry	3
Physical Science	4
Public Speaking I	3

Mississippi University for Women

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Bachelor of Technology – 124 hours

Professional Studies

General Business Concentration

Community College Transfer (up to 62 hours)

Career/Technical Transfer (up to)	43
General Education Requirement	4
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3

First Semester – 15 hours

MIS 160 Spreadsheet Applications	3
EC 201 Principles of Economics	3
ACC 211 Principles of Accounting	3
General Education Requirement	3
General Education Requirement	3

Second Semester – 17 hours

BQA 170 Statistical Analysis for Business	3
ACC 212 Principles of Accounting II	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3
General Education Requirement	2

Third Semester – 15 hours

MKT 361 Principles of Marketing	3
MGT 381 Principles of Management	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

Fourth Semester – 15 hours

PLG 241 Legal Environment of Business	3
MGT 460 Senior Seminar in Business	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

This curriculum is a sample and is intended to be a tentative guideline for the order in which courses should be taken to fulfill the requirements of the major. Community college transfer students must earn at least 50 percent of their academic credits from a senior institution, including at least 25 percent of those hours from MUW, and complete all other degree requirements. 12 of the 18 business elective hours must be completed at the 300-level or above.

East Mississippi Community College

Electrical Technology Career Certificate to Technical Certificate to AAS to BT Degrees

- Career Certificate – 31 hours, courses listed below, earned at EMCC
- Technical Certificate – 15 additional hours, courses listed below, earned at EMCC
- Associate of Applied Science in Electrical Technology, 15 hours of university parallel courses earned at EMCC.
- Bachelor of Technology in Professional Studies,

East Mississippi Community College

The Electrical Technology program prepares individuals to install, operate, maintain, and repair electrically-energized systems such as residential, commercial, and industrial electric wiring, and D.C. and A.C. motors, controls, and electrical distribution panels. Instruction in the use of test equipment is included. EMCC offers three exit points, a 30-hour career certificate, a 45-hour technical certificate, and a 60/61 hour AAS degree. Students interested in transferring to MUW for a Bachelor of Technology degree should consult a counselor regarding transferability of credits.

Career Certificate – 31 hours

EET 1144- AC/DC Circuits	4
ELT 1193- Fundamentals of Electricity	3
ELT 1113 –Residential Wiring	3
ELT 1113- Electrical Drawings and Schematics	3
CTE 1143 Fundamentals of Construction and Manufacturing	3
ELT 1213 Electrical Power	3
ELT 1123 Commercial Wiring	3
ELT 1413 Motor Control Systems	3
ELT 1253 Branch Circuits and Service Entrance Calculations	3
ELT 2613 Programmable Logic Controllers	3

Technical Certificate – 15 hours

ELT-2113 Equipment Maintenance, Troubleshooting and Repair	3
ELT 2424 Solid State Motor Control	3
IMM 1935 Manufacturing Skills Basic	5
Electives	4

Associate of Applied Science degree – 61 hours

English Composition I	3
Humanities/Fine Arts	3
Social/Behavioral Sciences	3
Math/Science	3
Public Speaking I	3

Mississippi University for Women

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Bachelor of Technology – 124 hours

Professional Studies

General Business Concentration

Community College Transfer (up to 62 hours)

Career/Technical Transfer (up to)	43
General Education Requirement	4
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3

First Semester – 15 hours

MIS 160 Spreadsheet Applications	3
EC 201 Principles of Economics	3
ACC 211 Principles of Accounting	3
General Education Requirement	3
General Education Requirement	3

Second Semester – 17 hours

BQA 170 Statistical Analysis for Business	3
ACC 212 Principles of Accounting II	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3
General Education Requirement	2

Third Semester – 15 hours

MKT 361 Principles of Marketing	3
MGT 381 Principles of Management	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

Fourth Semester – 15 hours

PLG 241 Legal Environment of Business	3
MGT 460 Senior Seminar in Business	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

This curriculum is a sample and is intended to be a tentative guideline for the order in which courses should be taken to fulfill the requirements of the major. Community college transfer students must earn at least 50 percent of their academic credits from a senior institution, including at least 25 percent of those hours from MUW, and complete all other degree requirements. 12 of the 18 business elective hours must be completed at the 300-level or above.

East Mississippi Community College

Electronics Technology Career Certificate to Technical Certificate to AAS to BT Degrees

- Career Certificate – 30 hours, courses listed below, earned at EMCC
- Technical Certificate – 15 additional hours, courses listed below, earned at EMCC
- Associate of Applied Science in Electronics Technology, 15 hours of university parallel courses earned at EMCC.
- Bachelor of Technology in Professional Studies,

East Mississippi Community College

The Electronics program provides the graduate with the basic skills and the technical knowledge to diagnose properly and repair electronic devices, along with problem solving techniques and computer diagnosis. Students are taught in modern, well-equipped labs utilizing electronic troubleshooting procedures as well as electronic diagnostics. Practical experience is given in such areas as DC circuits as they relate to the green America, AC circuits and electronic communications. An opportunity to be a licensed radio operator will be offered thru on site testing conducted by certified testers from the ARRL and approval of the FCC.

Career Certificate – 30 hours

EET 1114 DC Circuits	4
EET 1214 Digital Electronics	4
EET 1334 Solid State Devices and Circuits	4
EET 1123 AC Circuits	3
EET 1324 Microprocessors	4
EET 2334 Linear Integrated Circuits	4
EET 2414 Electronic Communications	4
CST 2113 Computer Servicing Lab	3

Technical Certificate –15 hours

EET 2514 Interfacing Techniques	4
IMM 1935 Manufacturing Skills Basic	5
Technical Elective	3
Technical Elective	3

Associate of Applied Science degree – 60 hours

English Composition I	3
Humanities/Fine Arts	3
Social/Behavioral Sciences	3
Math/Science	3
Public Speaking I	3

Mississippi University for Women

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Bachelor of Technology – 124 hours

Professional Studies General Business Concentration

Community College Transfer (up to 62 hours)

Career/Technical Transfer (up to)	43
General Education Requirement	4
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3

First Semester – 15 hours

MIS 160 Spreadsheet Applications	3
EC 201 Principles of Economics	3
ACC 211 Principles of Accounting	3
General Education Requirement	3
General Education Requirement	3

Second Semester – 17 hours

BQA 170 Statistical Analysis for Business	3
ACC 212 Principles of Accounting II	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3
General Education Requirement	2

Third Semester – 15 hours

MKT 361 Principles of Marketing	3
MGT 381 Principles of Management	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

Fourth Semester – 15 hours

PLG 241 Legal Environment of Business	3
MGT 460 Senior Seminar in Business	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

This curriculum is a sample and is intended to be a tentative guideline for the order in which courses should be taken to fulfill the requirements of the major. Community college transfer students must earn at least 50 percent of their academic credits from a senior institution, including at least 25 percent of those hours from MUW, and complete all other degree requirements. 12 of the 18 business elective hours must be completed at the 300-level or above.

East Mississippi Community College

Electro-Mechanical Technician AAS to BT Degrees

- Associate of Applied Science in Electro-Mechanical Technician program, 70 hours earned at EMCC.
- Bachelor of Technology in Professional Studies,

East Mississippi Community College

The Electro-Mechanical Technology program offers a two-year curriculum that leads to an Associate of Applied Science degree. Graduates are prepared to enter the job market in many different areas or continue their education at a four-year institution.

Students receive basic instruction in a wide variety of areas including safety, machinery maintenance, troubleshooting/service, blueprint reading, basic machining, fundamentals of industrial electricity, CAD, fluid power, Industrial Controls and PLC programming. The Electromechanical curriculum embeds opportunities to acquire multiple credentials through the National Center for Construction Education and Research (NCCER).

Associate of Applied Science degree –70 hours

IMM- 1935 Manufacturing Skills Basic	5
IMM 1113 Industrial Maintenance Core and Safety	3
IMM 1814 or 1154 Industrial Electricity Level I	4
IMM 2444 Pipefitting Level I	4
IMM 1474 Fluid Power	4
IMM 1484 Industrial Control Systems	4
IMM 1824 or 1164 Industrial Electricity Level II	4
DDT 1313 Principles of CAD	3
IMM 2124 Power Tools, Machining & Materials	4
IMM 2513 Programmable Logic Controller-Multi-Platform	3
IMM 2114 Equipment Maintenance Troubleshooting & Repair	4
IMM 2433 Electronic Motion Control	3
Technical Credit Hours	45
English Composition I	3
Humanities/Fine Arts	3
Social/Behavioral Sciences	3
College Algebra	3
Public Speaking I	3
Trigonometry	3
Calculus	3
General Physics	4

Mississippi University for Women

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Bachelor of Technology – 124 hours

Professional Studies

General Business Concentration

Community College Transfer (up to 62 hours)

Career/Technical Transfer (up to)	43
General Education Requirement	4
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3

First Semester – 15 hours

MIS 160 Spreadsheet Applications	3
EC 201 Principles of Economics	3
ACC 211 Principles of Accounting	3
General Education Requirement	3
General Education Requirement	3

Second Semester – 17 hours

BQA 170 Statistical Analysis for Business	3
ACC 212 Principles of Accounting II	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3
General Education Requirement	2

Third Semester – 15 hours

MKT 361 Principles of Marketing	3
MGT 381 Principles of Management	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

Fourth Semester – 15 hours

PLG 241 Legal Environment of Business	3
MGT 460 Senior Seminar in Business	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

This curriculum is a sample and is intended to be a tentative guideline for the order in which courses should be taken to fulfill the requirements of the major. Community college transfer students must earn at least 50 percent of their academic credits from a senior institution, including at least 25 percent of those hours from MUW, and complete all other degree requirements. 12 of the 18 business elective hours must be completed at the 300-level or above.

East Mississippi Community College

Precision Manufacturing and Machining Technology Technical Certificate to BT Degrees

- Career Certificate – 30 hours, courses listed below, earned at EMCC
- Career Certificate (2)- additional 35 hours earned at EMCC.
- Bachelor of Technology in Professional Studies,

East Mississippi Community College

The first year of the course, two semesters, consists of hands-on operation of machine shop equipment and classroom theory covering such areas as safety, blueprint reading, lathe and milling machine operation, and shop math.

In the second year of study, two semesters, students learn the theory and operation of basic Computer Numerical Control (CNC) equipment, metallurgy, and production methods along with the development of more advanced hands-on skills.

Throughout the program, students will have the opportunity to acquire National Institute for Metalworking Skills (NIMS) credentials.

Career Certificate – 30 hours

MST 1313 Machine Tool Mathematics	3
MST 1116 Power Machinery I	6
MST 1413 Blueprint Reading	3
CPT 1113 Microcomputer Applications	3
MST 1126 Power Machinery II	6
MST 1423 Advanced Blueprint Reading	3
MST 1613 Precision Layout	3
DDT 1113 Fundamentals of Drafting	3

Career Certificate –35 hours

MST 2135 Power Machinery III	5
MST 2714 Computer Numerical Control Operations I	4
MST 2813 Metallurgy	3
MST 2733 Fundamentals of CAD/CAM	3
MST 2144 Power Machinery IV	4
MST 2725 Computer Numerical Control Operations II	5
DDT 1313 Principles of CAD	3
MST 2913 Special Problems in Machining Tech	3
IMM 1935 Manufacturing Skills Basic	5

Mississippi University for Women

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Bachelor of Technology – 124 hours

Professional Studies

General Business Concentration

Community College Transfer (up to 62 hours)

Career/Technical Transfer (up to)	43
General Education Requirement	4
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3

First Semester – 15 hours

MIS 160 Spreadsheet Applications	3
EC 201 Principles of Economics	3
ACC 211 Principles of Accounting	3
General Education Requirement	3
General Education Requirement	3

Second Semester – 17 hours

BQA 170 Statistical Analysis for Business	3
ACC 212 Principles of Accounting II	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3
General Education Requirement	2

Third Semester – 15 hours

MKT 361 Principles of Marketing	3
MGT 381 Principles of Management	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

Fourth Semester – 15 hours

PLG 241 Legal Environment of Business	3
MGT 460 Senior Seminar in Business	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

This curriculum is a sample and is intended to be a tentative guideline for the order in which courses should be taken to fulfill the requirements of the major. Community college transfer students must earn at least 50 percent of their academic credits from a senior institution, including at least 25 percent of those hours from MUW, and complete all other degree requirements. 12 of the 18 business elective hours must be completed at the 300-level or above.

East Mississippi Community College

Welding Technology Career Certificate to Technical Certificate to AAS to BT Degrees

- Career Certificate – 35 hours, courses listed below, earned at EMCC
- Technical Certificate – 15 additional hours, courses listed below, earned at EMCC
- Associate of Applied Science in Welding Technology, additional 15 hours earned at EMCC.
- Bachelor of Technology in Professional Studies,

East Mississippi Community College

The Welding program prepares graduates to enter the job market in many different areas. Welding is utilized in manufacturing, structural construction, custom job shops, and as an integral part of many businesses.

Students will have the opportunity to acquire the American Welding Society (AWS) Schools Excelling through National Skill Standards Education (SENSE) Level I and Level II certification, National Center for Construction Education and Research (NCCER) Core, Level I Welding, Level II Welding.

Instruction includes the correct methods of Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW). Other components of metal fabrication include safety in the work place, relations with others in the work place, and the importance of regular and timely attendance.

Career Certificate – 35 hours

WLT 1115 Shielded Metal Arc Welding I	5
WLT 1225 Shielded Metal Arc Welding II	5
WLT 1313 Cutting Processes	3
WLT 1173 Introduction to Welding and Safety	3
IMM 1935 Manufacturing Skills Basics	5
WLT 1123 Gas Metal Arc Welding (GMAW)	3
WLT 1134 Gas Tungsten Arc Welding (GTAW)	4
WLT 1142 Flux Cored Arc Welding	2
WLT 1154 Pipe Welding	4
WLT 1231 Drawing and Weld Symbol Interpretation	1

Technical Certificate –15 hours

WLT 2813 Welding Metallurgy	3
WLT 1253 Advanced Pipe Welding	3
WLT 2913 Weld Code & Certification	3
Technical Electives	6

Associate of Applied Science degree –65 hours

English Composition I	3
Humanities/Fine Arts	3
Social/Behavioral Sciences	3
Math/Science	3
Public Speaking I	3

Mississippi University for Women

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Bachelor of Technology – 124 hours

Professional Studies

General Business Concentration

Community College Transfer (up to 62 hours)

Career/Technical Transfer (up to)	43
General Education Requirement	4
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3

First Semester – 15 hours

MIS 160 Spreadsheet Applications	3
EC 201 Principles of Economics	3
ACC 211 Principles of Accounting	3
General Education Requirement	3
General Education Requirement	3

Second Semester – 17 hours

BQA 170 Statistical Analysis for Business	3
ACC 212 Principles of Accounting II	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3
General Education Requirement	2

Third Semester – 15 hours

MKT 361 Principles of Marketing	3
MGT 381 Principles of Management	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

Fourth Semester – 15 hours

PLG 241 Legal Environment of Business	3
MGT 460 Senior Seminar in Business	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

This curriculum is a sample and is intended to be a tentative guideline for the order in which courses should be taken to fulfill the requirements of the major. Community college transfer students must earn at least 50 percent of their academic credits from a senior institution, including at least 25 percent of those hours from MUW, and complete all other degree requirements. 12 of the 18 business elective hours must be completed at the 300-level or above.

East Mississippi Community College

Welding Technician AAS to BT Degrees

- Associate of Applied Science in Welding Technician, 74-75 hours earned at EMCC.
- Bachelor of Technology in Professional Studies,

East Mississippi Community College

The Welding and Manufacturing Technician program prepares graduates to enter the job market in many different areas. Welding is utilized in manufacturing, structural construction, custom job shops, and as an integral part of many businesses.

The Welding and Manufacturing Technician Program offers a curriculum that leads to an associates of applied science degree and the opportunity to acquire the American Welding Society (AWS) Schools Excelling through National Skill Standards Education (SENSE) Level I and Level II certification, National Center for Construction Education and Research (NCCER) Core, Level I Welding, Level II Welding, Level I Pipe Fitting and Level II Pipefitting, OSHA 10-hour, First Aid/CPR and advanced manufacturing topics.

Students will be provided instruction in the correct methods of Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW), Advanced Pipe Welding, Welding Metallurgy, Welding Code, Computer-Aided Design and other components of manufacturing along with special emphasis on safety in the work place, relations with others in the work place, and the importance of regular and timely attendance will also be covered.

Associate of Applied Science degree

WLT 1115 Shielded Metal Arc Welding I	5
WLT 1225 Shielded Metal Arc Welding II	5
WLT 1313 Cutting Processes	3
WLT 1173 Introduction to Welding and Safety	3
IMM 1935 Manufacturing Skills Basics	5
WLT 1123 Gas Metal Arc Welding (GMAW)	3
WLT 1134 Gas Tungsten Arc Welding (GTAW)	4
WLT 1142 Flux Cored Arc Welding	2
WLT 1154 Pipe Welding	4
WLT 1231 Drawing and Weld Symbol Interpretation	1
WLT 1426 Basic Fabrication for Pipe Fitting	6
WLT 2813 Welding Metallurgy	3
WLT 1253 Advanced Pipe Welding	3
WLT 2913 Weld Code & Certification	3
WLT-1913 Special Problems In Welding	3
Technical Course Total	53

English Composition I	3
Humanities/Fine Arts	3
Social/Behavioral Sciences	3
College Algebra	3
Public Speaking I	3
Trigonometry	3
General Chemistry of General Physics	3-4

Mississippi University for Women

The General Business concentration is designed for community college transfer students who wish to obtain a breadth of knowledge in the fundamentals of business. This concentration offers students the opportunity to earn a degree in business without specializing a particular field.

Bachelor of Technology – 124 hours

Professional Studies General Business Concentration

Community College Transfer (up to 62 hours)

Career/Technical Transfer (up to)	43
General Education Requirement	4
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3
General Education Requirement	3

First Semester – 15 hours

MIS 160 Spreadsheet Applications	3
EC 201 Principles of Economics	3
ACC 211 Principles of Accounting	3
General Education Requirement	3
General Education Requirement	3

Second Semester – 17 hours

BQA 170 Statistical Analysis for Business	3
ACC 212 Principles of Accounting II	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3
General Education Requirement	2

Third Semester – 15 hours

MKT 361 Principles of Marketing	3
MGT 381 Principles of Management	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

Fourth Semester – 15 hours

PLG 241 Legal Environment of Business	3
MGT 460 Senior Seminar in Business	3
BU __ Business Elective	3
BU __ Business Elective	3
General Education Requirement	3

This curriculum is a sample and is intended to be a tentative guideline for the order in which courses should be taken to fulfill the requirements of the major. Community college transfer students must earn at least 50 percent of their academic credits from a senior institution, including at least 25 percent of those hours from MUW, and complete all other degree requirements. 12 of the 18 business elective hours must be completed at the 300-level or above.

ARTICULATION AGREEMENT
Between
East Mississippi Community College
and
Mississippi University for Women

The purpose of this agreement is to facilitate for students the transfer of credit hours applicable to a Career and Technical Education Program at East Mississippi Community College (EMCC) to the Bachelor of Technology Program at Mississippi University for Women (MUW) in accordance with policies set forth by the Mississippi Community College Board (MCCB) and the Mississippi Board of Trustees of State Institutions of Higher Learning (IHL).

EMCC and MUW jointly enter into this Agreement to provide a pathway allowed by both governing boards by which students earning an Associate of Applied Science degree from EMCC's Automation and Control Technology, Automotive Technology, Drafting and Design Technology, Electrical Technology, Electro-Mechanical Technology, Electronics Technology, Precision Machining and Welding Technology/Technician Program may complete a Professional Studies baccalaureate degree at MUW. In support of this agreement, the parties agree as follows:

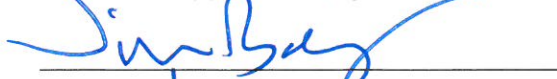
1. EMCC and MUW shall work together to enroll students in the following degree completion program: Bachelor of Technology in Professional Studies with a concentration in General Business.
2. EMCC shall, with assistance from MUW, advise, and encourage EMCC students, alumni, and constituents who qualify to enroll in MUW's Professional Studies Program.
3. MUW agrees to publish and make known its rotation of Professional Studies Program courses taught on the MUW campus so that eligible EMCC graduates may make informed advising decisions and complete degree requirements in a timely manner.
4. EMCC and MUW agree to promote the Professional Studies Program to each institution's stakeholders and throughout the local community college district.
5. This agreement is valid under guidelines established by MCCB and IHL.
6. Either party on written notification to the other may terminate this agreement.

For East Mississippi Community College:



Date: 2/10/16

For Mississippi University for Women:



Date: 1/21/16