

ADVANCED MANUFACTURING MANAGEMENT, BACHELOR OF APPLIED SCIENCE

This Bachelor's program requires an accredited associate degree in Automated Manufacturing Technology, Industrial Electronics Technology, or Mechatronics before full acceptance into the degree program.

Code	Title	Hours
General Education Courses		
<i>I. Communication</i>		
English:		
Select two of the following:		6
ENGL U101	Composition I	
ENGL U102	Composition II	
Speech:		
SPCH U201	Foundations in Oral Communication	3
<i>II. Mathematics, Logic & Natural Sciences</i>		
Mathematics:		6
Select one of the following:		
ECON U291	Probability and Statistics	
MATH U102	Elementary Statistics	
SOCY U201	Introduction to Statistics for the Social Sciences	
Select one of the following:		
MATH U121	College Algebra	
MATH U122	Calculus for Management and Social Sciences	
MATH U142	Calculus II	
Natural Science (w/ lab):		
Select one of the following:		4
ASTR U111 & U111L	Descriptive Astronomy and Descriptive Astronomy Laboratory	
BIOL U101 & U101L	Introductory Biology I and Introductory Biology I Lab	
BIOL U102 & U102L	Introductory Biology II and Introductory Biology II Lab	
BIOL U110 & U110L	General Biology and General Biology Lab	
BIOL U220 & U220L	Botany and Society and Botany and Society Laboratory	
BIOL U244 & U244L	Human Anatomy and Physiology II and Human Anatomy and Physiology II Lab	
CHEM U109 & U109L	Chemistry of Living Things and Chemistry of Living Things Lab.	
CHEM U111 & U111L	General Chemistry and General Chemistry Lab	
CHEM U112 & U112L	General Chemistry and Qualitative Analysis and General Chemistry and Qualitative Analysis Lab.	
GEOL U101 & U101L	Physical Geology and Physical Geology Lab	
GEOL U102 & U102L	Historical Geology and Historical Geology Lab	

GEOL U103 & U103L	Environmental Geology and Environmental Geology Lab	
PHYS U101 & U101L	Introduction to Physical Science and Introduction to Physical Science Laboratory	
PHYS U201 & U201L	General Physics I and General Physics I Lab	
PHYS U202 & U202L	General Physics II and General Physics II Lab	
<i>III. Information Technology</i>		
Information Technology:		
Select one of the following:		3
CSCI U138	Introduction to Computer Technology	
CSCI U150	Introduction to Computer Science	
DGST U101	Intro to Digital Studies	
INFO U101	Survey of Information Technology	
INFO U102	Introduction to Digital Safety	
<i>IV. Fine Arts, Humanities & History</i>		
Choose one course from each of the following two sections.		
Fine Arts:		
Select one of the following:		3
AFAM U204	African American Culture	
ARTH U101	Introduction to Art	
ARTH U105	History of Western Art: Prehistory - Middle Ages	
ARTH U106	History of Western Art: Renaissance - Modern	
ENGL U208	Introduction to Creative Writing	
MUSC U110	Introduction to Music	
MUSC U140	History of American Popular Music	
SOST U201	Introduction to Southern Studies	
THEA U161	Introduction to Theatre Art	
THEA U170	Fundamentals in Acting	
History:		
Select one of the following:		3
HIST U101	Introduction to World History I	
HIST U102	Introduction to World History II	
HIST U105	History of the United States to 1877	
HIST U106	History of the United States from 1865	
<i>V. Foreign Language & Culture</i>		
Foreign Language:		
Select one of the following: ¹		3
ASLG U101	American Sign Language I	
FREN U101	Introductory French I	
FREN U102	Introductory French II	
GERM U101	Introductory German I	
GERM U102	Introductory German II	
SPAN U101	Introductory Spanish I	
SPAN U102	Introductory Spanish II	
<i>VI. Social & Behavioral Sciences</i>		
Social & Behavioral Science:		
Select one of the following:		3
AFAM U201	Introduction to African American Studies	
ANTH U102	Understanding Other Cultures	
CRJU U101	Introduction to Criminal Justice	
ECON U221	Principles of Macroeconomics	

ECON U222	Principles of Microeconomics	
POLI U101	American National Government	
PSYC U101	Introduction to Psychology	
SOCY U101	Introduction to Sociology	
SPCH U210	Interpersonal Communication	
WGST U101	Introduction to Women's & Gender Studies	
<i>VII. General Education Electives</i>		
Gen. Ed. Elect.:		
Select three additional general education courses from any above not 9 already taken or from this list of additional Humanities courses:		
AMST U101	American Studies, 17th - 19th Century	
AMST U102	American Studies, 20th Century	
BIOL U143	Foundations of Human Physiology.	
BIOL U206	Genetics and Society	
BIOL U240	Human Biology and Society	
BIOL U260	Emerging Infectious Diseases	
BIOL U270	Environmental Science	
ENGL U252	Understanding English Grammar	
ENGL U275	Masterpieces of World Literature	
ENGL U279	Survey of American Literature I	
ENGL U280	Survey of American Literature II	
ENGL U289	Survey of British Literature I	
ENGL U290	Survey of British Literature II	
ENGL U291	African American Literature	
FILM U240	Introduction to Film	
GEOL U104	Natural Disasters	
GEOL U120	Geology of the Southeast	
PHIL U102	Introduction to Philosophy	
PHIL U111	Political Philosophy	
PHIL U211	Contemporary Moral Issues	
RELG U103	Comparative Religion	
SPAN U101B	Introductory Spanish I: Business	
Major Requirements ^{2,3,4}		
Technical Courses in Discipline (transfer-in block with Associate's Degree) ⁵		42
AMMG U300	Manufacturing Leadership I	3
AMMG U330	Manufacturing Work Practices	3
AMMG U415	Manufacturing Quality	3
AMMG U410	Manufacturing Leadership II	3
AMMG U420	Manufacturing Project Management	3
AMMG U450	Operational Excellence	3
AMMG U500	Senior Seminar	3
Upper Level Electives or Minor ^{3,6}		
AMM Majors may select Upper Level Electives (12 hours) or a Minor (12-18 (18 hours).		
Elective		
Select three credits		3
Total Hours		121

- ¹ Students placing into the U201 or higher level of a language satisfy the language requirement but will have additional hours in electives, if hours are required by the major.
- ² A maximum of 76 hours, including 42 hours of technical courses, may be transferred from a technical college curriculum. All courses transferred for degree credit must be a minimum grade of "C."
- ³ A minimum grade of C is required and an AMMG course used to meet AMM major requirements may not be taken more than twice. Attempts include receiving a "W", "WF", and "Audit". Appeals to this policy may be made to the Chair of Informatics and Engineering Systems.
- ⁴ To receive an Advanced Manufacturing Management degree, students must complete at least 15 hours of major course credit at USC Upstate.
- ⁵ Technical content transfers in from the associate degree in a mechatronics area.
- ⁶ Upper Level Electives include 300 level or higher courses and any course accepted by the University as meeting the requirements of a cognate.

Program Entry Requirements: Students must possess an accredited associate degree in Automated Manufacturing Technology, Industrial Electronics Technology, or Mechatronics.