Associate of Science Degree

Articulated with the Manufacturing/Engineering Technology Program at Oregon Institute of Technology

2009-10 Academic Year

Major Code: 240101F

About the Program

Based on a signed articulation agreement, Rogue Community College (RCC) and Oregon Institute of Technology (OIT) offer an Associate of Science degree for students who want to pursue a bachelor's degree in manufacturing. This degree was developed as a cooperative venture between OIT and RCC and offers knowledge and application components drawn from curriculum at both institutions.

The Associate of Science degree articulates directly into a the bachelor's degree program at OIT in Manufacturing/Engineering Technology. Graduates are guaranteed junior standing in the program at OIT.

Students must work closely with their advisors to ensure transferability of this program. If students transfer before completing this degree or transfer in a major not covered by prior agreements, their courses will be evaluated individually toward the transfer requirements of the college of their choice. Students are advised to obtain written approval from OIT to guarantee their catalog of transfer for three years.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over three years old must be reviewed and approved by the appropriate department head before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C" or better. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned a "C" or better grade. Note: Effective summer term 2009, many general education courses went from three to four credits. The three-credit version of any art, writing, speech, humanities, or social science course will meet the same degree requirements as the new four-credit version. Students must still complete all required courses in this degree and at least 90 applicable credits to receive an associate degree.

Prerequisites

Course No.	Course Title	Credits
——	Approved 3-4 credit computer science class, CS120 or above (or documented computer proficiency) [1]	0-4
MTH95	Intermediate Algebra (or designated placement test score as shown on current indicator chart)	4
RD30	College Reading II (or designated placement test score as shown on current indicator chart)	4
WR115	Introduction to Expository Writing (or designated placement test score as shown on current indicator chart)	3

First Year Required Courses

Course No.	Course Title	Credits
First Term		
MET101	Mechanical Drafting	3
MET105	Mechanical Blueprint Reading	1
MFG101	Introduction to Manufacturing	3
MFG116	Metrology	2
MFG121	Manufacturing Processes I	4
——	Approved humanities elective (see RCC catalog for approved list of electives)	3-4
		16-17
Second Term		
LIB127	Introduction to Library Research Methods	1
MET121	Computer Aided Drafting I: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy	3
MTH111	College Algebra	4
WLD101	Welding Fundamentals I	3
WR121	English Composition I	4
		18
Third Term		
MET122	Computer Aided Drafting II: Mechanical (SolidWorks)	3
MFG241	Computer Numerical Control Programming – Mill	4
MFG114	Geometric Dimensioning and Tolerancing	2
MTH112	Elementary Functions	4
WR122	English Composition II	4
		17
Fourth Term		
——	Approved humanities elective (see RCC catalog for approved list of electives)	3-4
MTH243	Probability and Statistics	4
		7-8
TOTAL FIRST YEAR CREDITS		**58-60**

Second Year Required Courses

Course No.	Course Title	Credits
Fifth Term		
MFG242	Computer Aided Manufacturing I: MasterCAM	4
MTH251	Calculus I (Differential)	5
PH211	General Physics (Calculus Based) I w/lab and recitation or	
PH201	General Physics I w/lab and recitation	5
		14
Sixth Term		
MFG230	Statistics and Quality Control	3
MFG243	Computer Aided Manufacturing II: MasterCAM	4
MTH252	Calculus II (Integral)	5
PH212	General Physics (Calculus Based) II w/lab and recitation or	
PH202	General Physics II w/lab and recitation	5
		17
Seventh Term		
CHEM104	Introductory Chemistry I w/lab and recitation or	
CHEM221	General Chemistry I w/lab and recitation	5
SP111	Fundamentals of Public Speaking	4
WR227	Technical Writing	4
——	Social science elective (see RCC catalog for approved list of electives)	3-4
		16-17
TOTAL SECOND YEAR CREDITS		**47-48**
TOTAL PROGRAM CREDITS		**105-108**

(over)

[1] Required for graduation. Successful completion of CS101 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement.

For more information contact the Manufacturing/Engineering Technology Department:
Grants Pass or Medford . . . . . (541) 245-7902
Toll free in Oregon . . . . . (800) 411-6508, Ext. 7902
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TTY . . . . . (541) 956-7338 or (541) 245-7587

This advising guide is for advising purposes only. Please see current college catalog for additional information on specific college policies and graduation requirements.

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