Manufacturing/Engineering Technology Transfer to Oregon Tech

Associate of Science Degree

Major Code: 240101F

About the Program

Based on a signed articulation agreement, Rogue Community College and Oregon Tech 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 Oregon Tech and RCC, and offers knowledge and application components drawn from curriculum at both institutions.

The Associate of Science degree transfers directly into the bachelor's degree program at Oregon Tech in Manufacturing/Engineering Technology and graduates are guaranteed junior standing in the program. Students should note that Associate of Science is the only designation that is recorded on transcripts.

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 Oregon Tech to guarantee their catalog of transfer for three years.

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. For a list of learning outcomes for this discipline or program, see www.roguecc.edu/Programs/LearningOutcomes.

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 chair 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.

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		
MFG101	Introduction to Manufacturing	3
MFG121	Manufacturing Processes I	4
—	Approved humanities electives [2]	6-8
		13-15
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
MTH112	Elementary Functions	4
WR122	English Composition II	4
		15
Fourth Term		
MTH243	Probability and Statistics	4
—	Approved humanities elective [2]	3-4
—	Social science elective [3]	3-4
		10-12
Total First Year Credits		**56-60**

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
—	Social science elective [3]	3-4
		17-18
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 [3]	3-4
		16-17
Total Second Year Credits		**50-52**
TOTAL PROGRAM CREDITS		**106-112**

[1] Successful completion of CS101 or CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement.

(over)

[2] Approved Humanities Electives

(Complete at least three courses from the following list, 9-12 credits)

Course No.	Course Title	Credits
ART115,116,117	Basic Design	3-3-3
ART131,132,133	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART211	Survey of Visual Arts	3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature I, II, III	4-4-4
ENG201,202,203	Shakespeare I, II, III	4-4-4
ENG204,205,206	Survey of English Literature I, II, III	4-4-4
ENG244	Introduction to Asian American Literature	4
ENG253,254,255	Survey of American Literature I, II, III	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG261	Literature of Science Fiction	4
ENG275	The Bible as Literature	4
FA101	Introduction to Motion Pictures	4
FR201,202, 203	Second Year French I, II, III	4-4-4
HUM101,102,103	Introduction to Humanities I, II, III	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
IS110	Introduction to International Studies	4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201,202,203	Introduction to Music and Its Literature I, II, III	4-4-4
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141,142,143	Fundamentals of Acting	4-4-4
TA144,145,146	Improvisational Theater	4-4-4
TA155	Readers Theater	4
TA164,165,166	Writing for Theater	4-4-4

[3] Approved Social Science Electives

(Complete at least three courses from the following list, 9-12 credits)

Course No.	Course Title	Credits
ANTH110,150	Introduction to Cultural Anthropology/Archaeology	4-4
CJ100	Foundations and Ethics in Criminal Justice	4
CJ101/SOC244	Introduction to Criminology	4
CJ110	Introduction to Law Enforcement	4
CJ120	Introduction to the Judicial Process	4
CJ130	Introduction to Corrections	4
CJ201/SOC221	Juvenile Delinquency	4
CJ214	Crime, Justice and Diversity	4
CJ243/SOC243	Drugs, Crime and Addiction	4
ECON201,202	Principles of Microeconomics/Macroeconomics	4-4
GEOG110	Introduction to Cultural and Human Geography	3
GEOG120	World Regional Geography	3
HST104,105	History of World Civilization I, II	4-4
HST201,202	History of the United States I, II	4-4
IS111	Introduction to International Studies II	3
PS201,202,203	U. S. Government I, II, III	3-3-3
PSY101	Psychology of Human Relations	3
PSY119	Life Processes	4
PSY201,202	General Psychology I, II	4-4
PSY219	Introduction to Abnormal Psychology	4
PSY231	Human Sexuality	3
SOC204,205	Introduction to Sociology, American Society	4-4
SOC211	Social Deviance and Social Control	3
SOC213	Multicultural America	4
SOC218	Sociology of Gender	4
SOC225	Social Problems	4
SOC228	Environment and Society	4
SOC230	Introduction to Gerontology	4

Note: Students who have graduated from high school or completed a high school equivalency program in 1997 or after must have the following requirement for admission to a four-year Oregon university: 1) Two years of the same high school-level foreign language, or 2) two terms of college-level foreign language with a grade of "C" or better (may be first-year foreign language, which can be used as elective credits on the Associate of Arts Oregon Transfer degree). If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must have a proficiency in a foreign language regardless of when they graduated from high school or equivalency program.

For more information contact the Manufacturing/Engineering Technology Department:

Grants Pass or Medford 541-245-7904

Toll free in Oregon .....800-411-6508, Ext. 7904

email .....lstegall@roguecc.edu

TTY ..... Oregon Telecom Relay Service, 711

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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