Advisor	
Assigned By	



Name	
Data	

2018-2019 EDUCATIONAL PLAN

Associate in Science – Major Related Program Mechanical & Civil Engineering

Course Placement Recommendations:		English	Reading	Math	
□ENGL 098	□READ 099	■MATH 095	■MATH 098	□ MATH& 141	
□ENGL 099		■ MATH 096	■ MATH 099	■ MATH& 142	

Recom	men	ded course schedule	
Fall Qu	arter	, First Year	Credits
		General Chem w/lab I (NS)	6
		English Composition I (C)	5
ENGR		Intro to Engineering	2
		Distribution (SS)**	<u>5</u>
Juciai Ju	JEHICE	EDISTRIBUTION (SS)	<u>9</u> 18
		ter, First Year	<u>Credits</u>
		General Chem w/lab II (NS)	6
MATH&	151	Calculus I (M)*	5
Humaniti	es Dis	stribution (H)***	<u>5</u>
			16
Spring	Ouar	ter, First Year	<u>Credits</u>
ENGR&			<u>5</u>
MATH&		Calculus II (M)	5
		` ,	3
		ss Distribution (HF)	
		stribution (H) ***	OR
Social So	ience	Distribution (SS)**	<u>5</u>
			18
Fall Qu	arter	<u>, Second Year</u>	<u>Credits</u>
ENGR&	225	Mechanic of Materials	5
MATH	118	Linear Algebra (M)	5
PHYS&	221	Engineering Physics I (NS)	<u>5</u>
		3 3 , (,	1 <u>5</u>
Mintor	Ouer	tor Socond Voor	Cradita
		ter, Second Year	<u>Credits</u>
		Dynamics	5
		Calculus III	5
		Engineering Physics II (NS)	5
ENGR	203	Applied Numerical Methods	<u>5</u>
			20
Spring	Quar	ter, Second Year	<u>Credits</u>
ENGR&	204	Electrical Circuits	5
MATH	212	Elem Differential Equations	5
MATH	264	Calculus IV	3
PHYS&	223	Engineering Physics III (NS)	<u>5</u>
		gg, (,	1 <u>8</u>
Electives n	auat ii	nclude a minimum of 2 or mo	• •
		ncidule a minimum of 2 of mo nnical Writing, and Electrical C	
		•	
*If you nee		riew prior to Calculus I (Math	& 151), you should take
		economics is recommended,	either ECONS 201 or
ECON& 20		soonomios is recommended,	GILLIGI LOONA ZUI UI
		required to complete 3-5	orodite in a Divorcity
		of courses that satisfy the Dive	
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Engineering

EMPHASIS: Mechanical/Civil/Aeronautical/Industrial/Materials

Science Pre-Engineering

DEGREE: Associate in Science

(AS-T #2 Other Engineering MRP)

Purpose:

This pre-engineering degree is a Major Related Program designed for students transferring to a four-year college or university to complete a degree in the sub-disciplines of mechanical, civil, aeronautical, industrial, and materials science engineering. Elective credits should be planned with the help of an engineering advisor and based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend. This two-year program requires students to be calculus ready second quarter of the first year. If you are not well prepared in high school mathematics and science, you should plan a three-year program at Centralia College in preparation for transfer to a four-year school. The main emphasis in the first year should be on strengthening your mathematics, basic sciences, communication, and reading skills.

Program Outcomes:

Please refer to the Distribution Requirements and their criteria listed in the Centralia College catalog.

Learning Themes:

General education outcomes at Centralia College help students, faculty, and the general public identify learning expected when a student has completed a degree or program. The administration, faculty, and staff have agreed upon the following five Learning Themes which students can expect to encounter in their courses by the completion of any degree.

Reasoning:

The ability to extract information from data, develop ideas and solutions, establish logical progression in thinking, and problem solve using such procedures as literary analysis or the scientific methods.

Written, Oral and Visual Communication:

The ability to make oneself understood in public, interpersonal, professional, artistic, and technical arenas.

Exploration-Self and Others:

An awareness of the values, beliefs, customs, and contributions of persons from one's own and other traditions, ethnicities, classes, and genders.

Resourcefulness:

The ability to adapt to change, such as technological innovations or environmental conditions.

Responsibility:

The ability to be accountable to self, society, and the natural world.

Note: Students who plan on transferring to the University of Washington will also need to take one full-year of a foreign language if they have not studied that language for the required amount of time in high school. Also, students going to the University of Washington may wish to take at least one five-credit designated writing course.

The Associate in Science degree represents attainments generally required by four-year colleges and universities for preprofessional programs in scientific disciplines. The need for early concentration on coursework in the chosen scientific major diminishes the general educational experience demonstrated by the Associate in Arts degree. By working with an advisor in the completion of one of the two Associate in Science tracks, you can transfer to one of the Washington State baccalaureate institutions with reasonable assurance that you have completed all or most of the prerequisite courses for the targeted science major.

Centralia College is part of the direct transfer Statewide Engineering AS-T Track 2 Major Related Program (MRP) Agreement with the following colleges:

Eastern Washington University - Gonzaga University - Saint Martin's University - Seattle Pacific University - Seattle University - University of Washington Seattle - Washington State University - Henry Cogswell University - Walla Walla College

This Educational Plan is intended as a guide for students who wish to emphasize a specific area of study for the Associate in Arts degree. It is not a guarantee that the courses listed in the plan will be available in the sequence suggested. In some instances, due to low enrollment, some courses may not be offered at all.

Estimated Quarterly Program Costs (subject to change without notice)

Resident Tuition (15 credits) and fixed fees*: \$1427 US Citizen Nonresident Tuition (15 credits) and fixed fees*: \$1576 Non US Citizen Nonresident Tuition (15 credits) and fixed fees*: \$3381

*Tuition is subject to change due to State Legislative actions

Books and supplies (estimate): \$427
Lab fees: Refer to quarterly cla

Lab fees: Refer to quarterly class schedule.

Centralia College does not discriminate against any person on the basis of race, color, national origin, disability, sex, genetic information, or age in admission, treatment, or participation in its programs, services and activities, or in employment. All inquiries regarding compliance with access, equal opportunity and/or grievance procedures should be directed to the Centralia College Vice President of Human Resources and Legal Affairs, 600 Centralia College Blvd., Centralia, WA 98531.