

Centralia College

Suggested courses for pre-engineering majors (AST2) for transfer to Washington State University, Pullman campus

Sections in this document refer to sections of the AST2 degree program found at:
<http://www.sbctc.edu/college/e-transferassocinsscience.aspx>

Note: Please consult with an academic advisor to determine which of the following courses are appropriate for AST2 degree completion in your particular area of interest.

Core Courses required for AST2:

A. Communication Skills

ENGL& 101 English Composition I

B. Mathematics

MATH& 151 Calculus I
MATH& 152 Calculus II

C. Humanities and Social Science

ECON& 202 Macroeconomics
ANTH& 100 Survey of Anthropology
Humanities Elective [HA]

D. Pre-major Program

MATH& 163 Calculus III
PHYS& 221 Engineering Physics I w/lab
PHYS& 222 Engineering Physics II w/lab
PHYS& 223 Engineering Physics III w/lab
CHEM& 161 General Chemistry I w/lab

E. Remaining Credits

Pathways described below correspond to the major related pathways (MRPs) defined at:
http://www.sbctc.edu/docs/education/transfer/2008-as-t_track2_engr_compsci_physics_atmossoci.pdf

Elective Requirements for All Pathways (11 credits recommended for all pathways):

ENGL& 235 Technical Writing
MATH 264 Calculus IV
MATH 212 Elementary Differential Equations

BIO and CHEM E Pathway (select at least 24 credits from this list):

CHEM& 162 General Chemistry II w/lab
CHEM& 163 General Chemistry III w/lab
CHEM& 261 Organic Chemistry I w/lab
CHEM& 262 Organic Chemistry II w/lab
CHEM& 263 Organic Chemistry III w/lab

ENGR& 214 Statics

BIOL& 222 Majors Cell/Molecular w/lab

MATH 118 Linear Algebra

Comp E and EE Pathway:

CHEM& 162 General Chemistry II w/lab

MATH 118 Linear Algebra

ENGR& 214 Statics (for EE pathway)

CS& 131 Computer Science I: C++ Programming*

** CS& 131 provides good preparation for WSU computer science classes, but is not transferrable for credit. Check with a WSU academic coordinator for more information.*

Mechanical, Civil, Materials Science, and Other Engineering Pathway (select at least 24 credits from this list):

MATH 118 Linear Algebra

BIOL& 260 Microbiology (for CE pathway)

CHEM& 162 General Chemistry II w/lab

CHEM& 163 General Chemistry III w/lab (for MSE pathway)

CS& 131 Computer Science I: C++ Programming

ENGR 100 Intro to Engineering

ENGR& 214 Statics

ENGR& 215 Dynamics

ENGR& 225 Mechanics of Materials

SPEE 101 Fundamentals Public Speaking (for CE pathway)**

SPEE 110 Principles of Speech Communication (for CE pathway)**

*** Only one of SPEE 101 or SPEE 110 needed for CE pathway.*

This document is accurate as of October, 2016. The latest version can be found at www.vcea.wsu.edu/transferstudents

For general questions about this document or to report an error, please contact Kasey Schertenleib at kasey@wsu.edu or 509-335-6613.

Advantages of the AST2 Degree When Transferring to WSU

- Courses designated [H]-Humanities and [S]-Social Science by your Community College are accepted as [HUM] and [SSCI] by WSU.
- [BIOL]-Biological Science UCORE Requirement is waived by WSU if your degree program does not require Biology.

WSU Writing Portfolio

At WSU, completion of the Junior Writing Portfolio is a General Education Requirement for graduation. Transfer students entering with 60 or more credits must initiate the Junior Writing Portfolio by the end of their first semester at WSU. To this end, you should save examples of writing from coursework completed at your Community College. Instructor sign-off is required. For more information, please visit:

www.writingprogram.wsu.edu/units/writingassessment/midcollege/writingportfolio/

Alternative Options for Obtaining WSU Engineering Credits

- Check with neighboring Colleges to see if alternative engineering electives are available which are transferable to WSU.
- Consider enrolling in a distance education course through Washington Online.
<http://www.waol.org/>
- Consider enrolling in WSU Summer Session courses prior to Fall enrollment.
<http://www.summer.wsu.edu/>

For specific questions regarding transfer equivalencies, please contact one of the WSU academic coordinators listed below:

School of Bioengineering and Chemical Engineering

Maria Greaney-Curry
509-335-1041
mgreaney@wsu.edu

Department of Civil and Environmental Engineering

Kelli Gardner-Schrand	John Rarig
509-335-6933	509-335-1219
k.gardner-schrand@wsu.edu	jrarig@wsu.edu

School of Electrical Engineering and Computer Science

Josh Whiting	Alli Guyer
509-335-2446	509- 335-0636
joshwhiting@wsu.edu	alliguyer@wsu.edu

School of Mechanical and Materials Engineering

Debi Mundell	Paul Veridian
509-335-7386	509-335-8582
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Distance Degree Programs in Bremerton/Everett

Linda Howell
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