Whatcom Community 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-transferassocinscience.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	Macro Economics
ANTH& 100	Survey of Anthropology
Humanities Elective [HA]	

D. Pre-major Program

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

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_atmossci.pdf

Elective Requirements for All Pathways (13 credits recommended for all pathways):

ENGL& 230	Technical Writing
MATH 208	Sequences and Series
MATH 238	Introduction to Differential Equations

BIO and CHEM E Pathway (select at least 20 credits from this list):

CHEM& 162	General Chemistry w/ Lab II
CHEM& 163	General Chemistry w/ Lab III
CHEM& 261	Organic Chemistry w/ Lab I
CHEM& 262	Organic Chemistry w/ Lab II
CHEM& 263	Organic Chemistry w/ Lab III
BIOL& 222	Majors Cell Biology/Molecular
MATH 204	Introduction to Linear Algebra (for BE Pathway)

Comp E and EE Pathway (select at least 20 credits from this list):

MATH 204	Introduction to Linear Algebra
ENGR& 214	Statics (for EE pathway)
CS 140	Computer Programming Fundamentals I
CS 145	Computer Programming Fundamentals II
CS 215	C and C++ Programming Topics
CS 240	Data Structure and Algorithm Fundamentals

Mechanical, Civil, Materials Science, and Other Engineering Pathway (select at least 20 credits from this list):

MATH 204	Introduction to Linear Algebra
BIOL&260	Microbiology (for CE pathway)
CHEM& 162	General Chemistry w/ Lab II
CHEM& 163	General Chemistry w/ Lab III (for MSE pathway)
ENGR& 214	Statics
ENGR& 215	Dynamics
ENGR& 225	Mechanics of Materials
CS 215 or CS 225	C and C++ Programming Topics OR Java Programming (ME/MSE pathway)
CMST& 220	Public Speaking (for CE pathway)*
CMST& 230	Small Group Communication (for CE pathway)*

*(Only one of CMST& 220 or CMST& 230 needed for CE pathway, may also fulfill requirement in section C)

This document is accurate as of February 16, 2016. The latest version can be found at www.cea.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:

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School of Electrical Engineering and Computer Science
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School of Mechanical and Materials Engineering

Pullman Campus
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