Shoreline 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
Humanities Elective [HA]
Humanities or Social Science Elective [SS]

D. Pre-major Program
MATH& 163 Calculus III
PHYS& 221/231 Engineering Physics I w/ Lab
PHYS& 222/232 Engineering Physics II w/ Lab
PHYS& 223/233 Engineering Physics III w/ Lab
CHEM 171/181 General Chemistry w/ Lab I

E. Remaining Credits
Pathways described below correspond to the major related pathways (MRPs) defined at: http://www.sbctc.edu/college/transfer/as_t_track2_engr_pathways_As_Proposed.doc

Elective Requirements for All Pathways (15 credits recommended for all pathways):
ENGL& 230 Technical Writing
MATH& 264 Calculus 4
MATH 207 Differential Equations

BIO and CHEM E Pathway (select at least 20 credits from this list):
CHEM 172/182 General Chemistry w/ Lab II
CHEM 173/183 General Chemistry w/ Lab III
CHEM& 241/271 Organic Chemistry w/ Lab I
CHEM& 242/272 Organic Chemistry w/ Lab II
CHEM& 243 Organic Chemistry III
BIOL& 211 Majors Cellular
MATH 208 Linear Algebra (for BE Pathway)
ENGR& 204  Electrical Circuits  
ENGR& 224  Thermodynamics

Comp E and EE Pathway (select at least 20 credits from this list):
CHEM 172/182  General Chemistry w/ Lab II
MATH 208  Linear Algebra
ENGR& 214  Statics (for EE pathway)
ENGR& 204  Electrical Circuits
ENGR& 224  Thermodynamics
CS& 141  Computer Science I Java**
** For EE pathway, good for background preparation, but will not substitute as CptS 121 at WSU

Mechanical, Civil, Materials Science, and Other Engineering Pathway (select at least 20 credits from this list):
MATH 208  Linear Algebra
BIOL& 260  Microbiology (for CE pathway)
CHEM 172/182  General Chemistry w/ Lab II
CHEM 173/183  General Chemistry w/ Lab III (for MSE pathway)
ENGR& 204  Electrical Circuits
ENGR& 214  Statics
ENGR& 215  Dynamics
ENGR& 224  Thermodynamics
ENGR& 225  Mechanics of Materials
ENGR 205  Solid Works and Parametric Modeling (for ME pathway)
ENGR 206  Advanced Solid Works (for ME pathway)
CSC& 141  Computer Science I Java (for ME/MSE pathway)

This document is accurate as of February 26, 2016. The latest version can be found at [www.cea.wsu.edu/transferstudents](http://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 [H] and [S] by WSU.
- [B]-Biological Science General Education Requirement (GER) 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 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 and 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
509-335-2446
joshwhiting@wsu.edu

School of Mechanical and Materials Engineering
Pullman Campus
Priscilla Hastay
509-335-8582
hastay@wsu.edu
Bremerton/Everett
Linda Howell
509-335-2483
linda.howell@wsu.edu