Edmonds 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& 153 Calculus III
   PHYS& 241/231 Engineering Physics I w/ Lab
   PHYS& 242/232 Engineering Physics II w/ Lab
   PHYS& 243/233 Engineering Physics III w/ Lab
   CHEM& 141/151 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_atmossci.pdf

Elective Requirements for All Pathways (15 credits recommended for all pathways):
   ENGR 231 Introduction to Technical Writing
   MATH& 254 Calculus IV
   MATH 271 Differential Equations

BIO and CHEM E Pathway (select at least 20 credits from this list):
   CHEM& 142/152 General Chemistry II w/ Lab
   CHEM& 143/153 General Chemistry III w/ Lab
   CHEM& 241/251 Organic Chemistry I w/ Lab
   CHEM& 242/252 Organic Chemistry II w/ Lab
   CHEM& 243/253 Organic Chemistry III w/ Lab

   MATH 272 Linear Algebra (for BE Pathway)
BIOL& 211  Majors Cellular (for BE Pathway)
ENGR& 204  Electrical Circuits

**Comp E and EE Pathway (select at least 20 credits from this list):**
CHEM& 142/152  General Chemistry II w/ Lab
MATH 272  Linear Algebra
ENGR& 214  Statics (for EE pathway)
ENGR& 204  Electrical Circuits
CS 132  Computer Science II C++ *
CS 133  Computer Science III C++ *
* The CS 132/133 series provides good background preparation for WSU computer science classes, but is not necessarily transferrable for credit. Check with a WSU academic advisor for more info.

**Mechanical, Civil, Materials Science, and Other Engineering Pathway (select at least 20 credits from this list):**
MATH 272  Linear Algebra
BIOL& 260  Microbiology (for CE pathway)
CHEM& 142/152  General Chemistry II w/ Lab
CHEM& 143/153  General Chemistry III w/ Lab (for MSE pathway)
ENGR& 114  Engineering Graphics (for ME pathway)
ENGR& 204  Electrical Circuits
ENGR& 214  Statics
ENGR& 215  Dynamics
ENGR& 225  Mechanics of Materials
ENGR 240  Applied Numerical Methods
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 23, 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 [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  
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Department of Civil and Environmental Engineering
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School of Electrical Engineering and Computer Science
Josh Whiting  
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School of Mechanical and Materials Engineering
Pullman Campus  Bremerton/Everett
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