Columbia Basin 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 [H]

D. Pre-major Program
   MATH& 153 Calculus III
   PHYS& 241 Engineering Physics I
   PHYS& 231 Engineering Physics I Laboratory
   PHYS& 242 Engineering Physics II
   PHYS& 232 Engineering Physics II Laboratory
   PHYS& 243 Engineering Physics III
   PHYS& 233 Engineering Physics III Laboratory
   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_atmossci.pdf

Elective Requirements for All Pathways (15 credits recommended for all pathways):
   ENGL& 235 Technical Writing
   MATH& 254 Calculus IV
   MATH 255 Differential Equations

BIO and CHEM E Pathway (select at least 20 credits from this list):
   CHEM& 162 General Chemistry II w/ Lab
   CHEM& 163 General Chemistry III w/ Lab
   CHEM& 241 Organic Chemistry I w/ Lab
   CHEM& 242 Organic Chemistry II w/ Lab
   CHEM& 243 Organic Chemistry III w/ Lab
MATH 243 Linear Algebra (for BE pathway)

BIOL& 211 Majors Cellular w/Lab (for BE pathway)

**Comp E and EE Pathway:**
CHEM& 162 General Chemistry II w/ Lab

MATH 243 Linear Algebra

ENGR& 214 Statics (for EE pathway)

CS& 131 Computer Science I C++*
CS 162 C++2
CS 260 Data Structures in C++

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

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

MATH 243 Linear Algebra

BIOL& 260 Microbiology w/Lab (for CE pathway)

CHEM& 162 General Chemistry II w/ Lab
CHEM& 163 General Chemistry III w/ Lab (for MSE pathway)

ENGR& 214 Statics
ENGR& 215 Dynamics

CS& 131 Computer Science I C++ (for ME pathway)

CMST& 220 Public Speaking (for CE pathway)*

*(Only one of CMST& 220 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 [wwwcea.wsu.edu/transferstudents](http://wwwcea.wsu.edu/transferstudents)

For general questions about this document or to report an error, please contact Kasey Schertenleib at [kasey@wsu.edu](mailto: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 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 Bremerton/Everett
Priscilla Hastay Linda Howell
509-335-8582 509-335-2483
hastay@wsu.edu linda.howell@wsu.edu