Seattle Central 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& 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/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 224 Vector Calculus
MATH 238 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& 241/251 Organic Chemistry w/ Lab I
CHEM& 242/252 Organic Chemistry w/ Lab II
CHEM& 243/253 Organic Chemistry w/ Lab III
BIOL& 211 Biology Majors I (for BE Pathway)
MATH 220 Linear Algebra (for BE Pathway)
ENGR& 204  Electrical Circuits

**Comp E and EE Pathway (select at least 20 credits from this list):**
- CHEM& 162  General Chemistry w/ Lab II
- MATH 220  Linear Algebra
- ENGR& 214  Statics (for EE pathway)
- ENGR& 204  Electrical Circuits
- CSC 142  Computer Programming**
- CSC 143  Computer Programming II**

** 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 220  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& 204  Electrical Circuits
- ENGR& 214  Statics
- ENGR& 215  Dynamics
- ENGR& 225  Mechanics of Materials
- CSC 142  Computer Programming for Engineers (for ME/MSE pathway)
- CMST& 220  Public Speaking (for CE pathway)*
- CMST& 230  Group Communication (for CE pathway)*

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

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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](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 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
Kelli Gardner-Schrand and John Rarig
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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
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