Centralia 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 Macroeconomics
ANTH& 100 Survey of Anthropology
Humanities Elective [HA]

**D. Pre-major Program**
MATH& 163 Calculus III
PHYS& 221 Engineering Physics I w/lab
PHYS& 222 Engineering Physics II w/lab
PHYS& 223 Engineering Physics III w/lab
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 (11 credits recommended for all pathways):**
ENGL& 235 Technical Writing
MATH 264 Calculus IV
MATH 212 Elementary Differential Equations

**BIO and CHEM E Pathway (select at least 24 credits from this list):**
CHEM& 162 General Chemistry II w/lab
CHEM& 163 General Chemistry III w/lab
CHEM& 261 Organic Chemistry I w/lab
CHEM& 262 Organic Chemistry II w/lab
CHEM& 263 Organic Chemistry III w/lab
ENGR& 214 Statics (for BE pathway)
BIOL& 222 Majors Cell/Molecular w/lab
MATH 118  Linear Algebra (for BE Pathway)

**Comp E and EE Pathway:**
CHEM& 162  General Chemistry II w/lab
MATH 118  Linear Algebra
ENGR& 214  Statics (for EE pathway)

CS& 131  Computer Science I: C++ Programming*
* CS& 131 provides good background preparation for WSU computer science classes, but is not transferrable for credit. Check with a WSU academic advisor for more info.

**Mechanical, Civil, Materials Science, and Other Engineering Pathway (select at least 24 credits from this list):**
MATH 118  Linear Algebra
BIOL& 260  Microbiology (for CE pathway)
CHEM& 162  General Chemistry II w/lab
CHEM& 163  General Chemistry III w/lab (for MSE pathway)
CS& 131  Computer Science I: C++ Programming
ENGR& 214  Statics
ENGR& 215  Dynamics
ENGR& 225  Mechanics of Materials
SPEE 101  Fundamentals Public Speaking (for CE pathway)**
SPEE 110  Principles of Speech Communication (for CE pathway)**
** Only one of SPEE 101 or SPEE 110 needed for CE pathway, may also fulfill requirement in section C.

Talk with your academic advisor about additional elective course options. Some classes may be available on-line or through other nearby community colleges. Classes may also be available through WSU Summer session prior to Fall enrollment.

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 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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School of Mechanical and Materials Engineering
Pullman Campus Bremerton/Everett
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