Clark 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& 206 Introduction to Cultural Anthropology
Humanities Elective [HA]

D. Pre-major Program
MATH& 153 Calculus III
PHYS& 241 Engineering Physics I
PHYS& 242 Engineering Physics II
PHYS& 243 Engineering Physics III
CHEM& 141 General Chemistry I
CHEM& 151 General Chem Lab I

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 221 Differential Equations

BIO and CHEM E Pathway (select at least 20 credits from this list):
CHEM& 142 General Chemistry II
CHEM& 152 General Chem Lab II
CHEM& 143 General Chemistry III
CHEM& 153 General Chem Lab III
CHEM& 241 Organic Chemistry I
CHEM& 242 Organic Chemistry II
CHEM& 243 Organic Chemistry III
CHEM& 251 Organic Chem Lab I
CHEM& 252  Organic Chem Lab II
BIOL& 222  Majors Cell/Molecular (for BE pathway)
MATH 215  Linear Algebra (for BE Pathway)
ENGR& 204  Electrical Circuits
ENGR 252  Electrical Circuits & Signals
ENGR& 224  Thermodynamics

**Comp E and EE Pathway (select at least 20 credits from this list):**
CHEM& 142  General Chemistry II
CHEM& 152  General Chem Lab II
MATH 215  Linear Algebra
ENGR& 204  Electrical Circuits I and Electrical Circuits Lab
ENGR 250  Digital Logic Design
ENGR 252 and 253  Electrical Circuits and Signals & Signals and Systems
ENGR& 214  Statics (for EE pathway)
ENGR& 224  Thermodynamics
ENGR 270  Digital Systems and Microprocessors
CSE 121  Introduction to C
CSE 222  Introduction to Data Structures
CSE 223  Data Structures and Object-Oriented Programming
CSE 224  Programming Tools

**Mechanical, Civil, Materials Science, and Other Engineering Pathway (select at least 20 credits from this list):**
MATH 215  Linear Algebra
BIOL& 260  Microbiology (for CE pathway)
CHEM& 142  General Chemistry II
CHEM& 152  General Chem Lab II
CHEM& 143  General Chemistry III (for MSE pathway)
CHEM& 153  General Chem Lab III (for MSE pathway)
ENGR 150  Basic Solidworks (for ME pathway)
ENGR 221  Materials Science
ENGR& 204  Electrical Circuits*
ENGR 252  Electrical Circuits & Signals
ENGR& 214  Statics
ENGR& 215  Dynamics
ENGR& 224  Thermodynamics*
ENGR& 225  Mechanics of Materials
ENGR 239  Manufacturing Processes (for ME and MSE pathway)
*(Only one of ENGR&204 or ENGR&224 needed for CE pathway)*

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. https://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
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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Bremerton/Everett
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