

Lower Columbia 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-transferassocinsscience.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 Cultural Anthropology

Humanities Elective [HA]

D. Pre-major Program

MATH& 153 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 w/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_atmossoci.pdf

Elective Requirements for All Pathways (15 credits recommended for all pathways):

ENGL& 235 Technical Writing

MATH 154 Calculus IV

MATH 240 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& 261 Organic Chemistry w/Lab I

CHEM& 262 Organic Chemistry w/Lab II

CHEM& 263 Organic Chemistry w/Lab III (for ChemE pathway)

BIOL& 211 Majors Biology Cellular

MATH 220 Linear Algebra (for BE Pathway)

ENGR& 204 Electrical Circuits

ENGR& 224 Thermodynamics

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& 224 Thermodynamics (for EE pathway)

CS 270 Data Structures I *

** CS 270 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 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)

C S 170 Fundamentals of Computer Programming (for ME, MSE pathway)

ENGR& 123 Engineering Graphics III (for ME pathway)
ENGR& 204 Electrical Circuits*
ENGR& 214 Statics
ENGR& 215 Dynamics
ENGR& 224 Thermodynamics*
ENGR& 225 Mechanics of Materials

**(Only one of ENGR& 204 or ENGR& 224 needed for CE pathway)*

SPCH 110 Intro to Public Speaking (for CE pathway)**
SPCH 114 Small Group Communication (for CE pathway)**

*** (Only one of SPCH 110 or SPCH 114 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 at WSU Online 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

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

- No need to take History 105 [ROOT] for the WSU General Education program, if you take one of either HIST& 126, HIST& 127, or HIST& 128.
- 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:

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Department of Civil and Environmental Engineering

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School of Electrical Engineering and Computer Science

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School of Mechanical and Materials Engineering

Pullman Campus

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