

Highline 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 Macroeconomics

ANTH& 100 Survey of Anthropology

Humanities Elective [HA]

D. Pre-major Program

MATH& 153 Calculus III

PHYS 201 Engineering Physics I – Mechanics

PHYS 202 Engineering Physics II – Electricity and Magnetism

PHYS 203 Engineering Physics III – Waves, Thermodynamics, and Modern Topics

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):

MATH& 254 Calculus IV

MATH 230 Differential Equations

ENGL& 235 Technical Writing

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

BIOL& 211 Majors Cell

ENGR& 204 Electrical Circuits
ENGR& 224 Thermodynamics

MATH 220 Linear Algebra (for BE Pathway)

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

ENGR& 224 Thermodynamics

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& 214 Statics

ENGR& 215 Dynamics

ENGR& 225 Mechanics of Materials

ENGR& 204 Electrical Circuits

ENGR& 224 Thermodynamics

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 April 18, 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

- 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:

School of Bioengineering and Chemical Engineering

Maria Greaney-Curry
509-335-1041
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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

Pullman Campus	Bremerton/Everett
Josh Whiting	Linda Howell
509-335-2446	509-335-2483
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School of Mechanical and Materials Engineering

Pullman Campus	Bremerton/Everett
Priscilla Hastay	Linda Howell
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