

Big Bend 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& 163 Calculus 3

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_atmosphsci.pdf

Elective Requirements for All Pathways (10-20 credits recommended for all pathways):

MATH 271 Multivariable Calculus (Calculus IV)

MATH 230 Differential Equations

ENGL& 235 Technical Writing (May be available through <https://www.waol.org/>)

BIO and CHEM E Pathway:

CHEM& 162 General Chemistry w/ Lab II

CHEM& 163 General Chemistry w/ Lab III

BIOL& 222 Majors Cell/Molecular (for BE pathway)

MATH 220 Linear Algebra

Comp E and EE Pathway:

CHEM& 162 General Chemistry w/ Lab II

MATH 220 Linear Algebra

Mechanical, Civil, Materials Science, and Other Engineering Pathway:

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)

CMST& 220 Public Speaking (for CE pathway)*

*(CMST& 220 needed for CE pathway, may also fulfill requirement in section C)

This document is accurate as of October, 2017. The latest version can be found at www.ycea.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

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School of Electrical Engineering and Computer Science

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School of Mechanical and Materials Engineering

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Distance Degree Programs in Bremerton/Everett

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