Cascadia 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/_et.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& 206   Cultural Anthropology
Humanities Elective [HA]

D. Pre-major Program
MATH& 163   Calculus 3
PHYS& 221   Engineering Physics I
PHYS& 222   Engineering Physics II
PHYS& 223   Engineering Physics III
CHEM& 161   General Chemistry with 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& 264   Calculus 4
MATH 238    Differential Equations

BIO and CHEM E Pathway (select at least 20 credits from this list):
CHEM& 162   General Chemistry with Lab II
CHEM& 163   General Chemistry with Lab III
CHEM& 241   Organic Chemistry I
CHEM& 242   Organic Chemistry II
CHEM& 243   Organic Chemistry III
CHEM 254    Organic Chemistry Lab A
CHEM 255    Organic Chemistry Lab B
BIOL& 211   Majors Cellular (for BE pathway)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MATH 208</td>
<td>Linear Algebra (for BE Pathway)</td>
</tr>
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<td></td>
<td><strong>Comp E and EE Pathway:</strong></td>
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<tr>
<td>CHEM&amp; 162</td>
<td>General Chemistry with Lab II</td>
</tr>
<tr>
<td>MATH 208</td>
<td>Linear Algebra</td>
</tr>
<tr>
<td>ENGR&amp; 214</td>
<td>Statics (for EE pathway)</td>
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**Mechanical, Civil, Materials Science, and Other Engineering Pathway (select at least 20 credits from this list):**

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<td>MATH 208</td>
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<td>CHEM&amp; 162</td>
<td>General Chemistry with Lab II</td>
</tr>
<tr>
<td>CHEM&amp; 163</td>
<td>General Chemistry with Lab III (for MSE pathway)</td>
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<tr>
<td>BIOL&amp; 260</td>
<td>Microbiology (for CE pathway)</td>
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<tr>
<td>ENGR&amp; 214</td>
<td>Statics</td>
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<tr>
<td>ENGR&amp; 215</td>
<td>Dynamics</td>
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<tr>
<td>ENGR&amp; 225</td>
<td>Mechanics of Materials</td>
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<tr>
<td>CMST&amp; 220</td>
<td>Public Speaking (for CE pathway)**</td>
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<tr>
<td>CMST&amp; 230</td>
<td>Group Communication (for CE pathway)**</td>
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</tbody>
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***(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](mailto: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
509-335-1041
mgreaney@wsu.edu

Department of Civil and Environmental Engineering
Kelli Gardner-Schrand and John Rarig
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School of Electrical Engineering and Computer Science
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School of Mechanical and Materials Engineering
Pullman Campus
Priscilla Hastay
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Bremerton/Everett
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