

# Everett 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 116              Cultures in Context  
Humanities Elective [HA]

#### **D. Pre-major Program**

MATH& 163            Calculus III  
PHYS& 241            Engineering Physics I  
PHYS& 231            Engineering Physics I Laboratory  
PHYS& 242            Engineering Physics II  
PHYS& 232            Engineering Physics II Laboratory  
PHYS& 243            Engineering Physics III  
PHYS& 233            Engineering Physics III Laboratory  
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](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& 230            Technical Writing  
MATH& 264            Calculus IV  
MATH 261              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
BIOL& 222	Majors Cell/Molecular

MATH 260            Linear Algebra

ENGR& 214	Statics (for BE pathway; Elective for ChE)
ENGR& 204	Electrical Circuits
ENGR& 215	Dynamics (Electives for both)
ENGR& 224	Thermodynamics (Electives for both)

**Comp E and EE Pathway (select at least 20 credits from this list):**

CHEM& 162            General Chemistry w/ Lab II

MATH 260            Linear Algebra

ENGR& 204	Electrical Circuits
ENGR& 214	Statics (for EE pathway)
ENGR& 224	Thermodynamics (for EE pathway)

CS& 141 and 143	Computer Programming for Engineers and Scientists
CS& 131	Computer Science I C++

**Mechanical, Civil, Materials Science, and Other Engineering Pathway (select at least 20 credits from this list):**

MATH 260            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 111	Intro to Engineering I
ENGR 240	Applied Numerical Methods
ENGR& 114	Engineering Graphics (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)

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)

This document is accurate as of October, 2016. The latest version can be found at [www.vcea.wsu.edu/transferstudents](http://www.vcea.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/](http://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  
[mgreaney@wsu.edu](mailto:mgreaney@wsu.edu)

#### **Department of Civil and Environmental Engineering**

Kelli Gardner-Schrand 509-335-6933 <a href="mailto:k.gardner-schrand@wsu.edu">k.gardner-schrand@wsu.edu</a>	John Rarig 509-335-1219 <a href="mailto:jrarig@wsu.edu">jrarig@wsu.edu</a>
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#### **School of Electrical Engineering and Computer Science**

Josh Whiting 509-335-2446 <a href="mailto:joshwhiting@wsu.edu">joshwhiting@wsu.edu</a>	Alli Guyer 509-335-0636 <a href="mailto:alliguyer@wsu.edu">alliguyer@wsu.edu</a>
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#### **School of Mechanical and Materials Engineering**

Debi Mundell 509-335-7386 <a href="mailto:debi.mundell@wsu.edu">debi.mundell@wsu.edu</a>	Paul Veridian 509-335-8582 <a href="mailto:paul.veridian@wsu.edu">paul.veridian@wsu.edu</a>
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**Distance Degree Programs in Bremerton/Everett**

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