

**Shoreline Community College  
UNIVERSITY OF WASHINGTON  
COLLEGE OF ENGINEERING**

Shoreline Community College/Advising and Counseling Center

2008-2009, updated July 2008

**Associate in Science Degree**

We generally recommend the Associate in Science degree because it is specifically designed for pre-engineering students and it transfers as part of the AS-Transfer agreement to all public and most private engineering schools in Washington State. Please use the AS – Track 2 for Engineering planning sheet in addition to this handout. AS degree requirements are explained on that planning sheet.

**Other Associate degree options:**

Students may also choose to complete the **Associate in Arts & Sciences–Option B** instead. It is a self-design degree requiring 90 transfer credits including just three specific courses (at right). The remaining courses are planned by the student according to their intended major at UW.

GENERAL EDUCATION REQUIREMENTS - OPTION B	
1. ___	English Composition 101 Also meets UW Composition requirement - 2.0 min. grade
2. ___	Quantitative /Symbolic Reasoning (use MATH& 151 (124))
3. ___	Multicultural Education ( <i>See class schedule for list of approved courses</i> ).

Or, those students who already have many general education courses completed may be interested in the **Associate in Arts & Sciences-Option A**. We recommend that you consult an advisor to help you choose an Associates degree and plan your courses.

**UW College of Engineering Upper-Division Admission requirements**

- 1) Admission to the University of Washington (see below).
- 2) Completion of prerequisite science, English and engineering courses and admission to a specific major department. Prerequisite courses, also called the pre-engineering stage, takes a minimum of two years full-time study and can all be completed at Shoreline CC. See the chart on page 3 for specific requirements by major. Admission is competitive and, for some majors, requires a high grade point average. See back page for contact information.

The College of Engineering also has an **Early Admission Program** for students who start at UW as freshmen..

**Engineering Departmental Application Deadlines:**

- Autumn Qtr: July 1 – All departments admit Autumn.  
Spring Qtr: Feb 1 – Bioengineering, Computer, Electrical, Industrial, Materials Science, Paper Science, Technical Comm  
Additional: Students interested in Paper Science can apply anytime, please contact advisor at [cfradv@u.washington.edu](mailto:cfradv@u.washington.edu) .

Departmental applications are online at <http://www.engr.washington.edu/uapp>

Engineering Programs	Avg # degrees per year
Aeronautics & Astronautics	50
Bioengineering	30
Chemical Engineering	50
Civil & Environmental Engr	90
Computer Engineering	80
Electrical Engineering	180
Industrial Engineering	40
Mechanical Engineering	90
Materials Science & Engineerin	40
Paper Science & Engineering	15
Technical Communication	15

**UW Admissions Requirements**

Students can pick up a Transfer Admissions & Planning booklet at SCC Student Development Center, Rm 5229. Students can also contact the UW Admissions Office at 206/543-9686 or [askuwadm@u.washington.edu](mailto:askuwadm@u.washington.edu) to request the booklet and ask questions.

**CURRENT (NEW) TRANSFER AGREEMENT**

1. Students transferring from a Washington Community College are given high priority. The UW will (continue to) admit CC transfer students for a minimum of 30% of all incoming students.
2. Completion of High School Core Subjects (at right) is **REQUIRED**.
3. Students will be selected for admission using a comprehensive review of GPA, preparation for major, completion of world language requirements, cultural awareness, documented academic and/or athletic talent, availability of desired program at other schools, work experience applicable to major, adversity they have overcome and more.  
[UWEngr.doc 05/28/08]

**Transfer Application Deadlines**

Summer & Fall Quarter: February 15  
 Winter - September 15; Spring - December 15

**Running Start, Postbaccalaureate and International students have different dates!**

HIGH SCHOOL CORE SUBJECTS ADMISSIONS REQUIREMENTS			
<i>English*</i>	<i>4 years</i>	<i>World Language</i>	<i>2 years</i>
<i>Mathematics</i>	<i>3 years</i>	<i>Fine Arts</i>	<i>1/2 year</i>
<i>Social Studies</i>	<i>3 years</i>	<i>Electives</i>	<i>1/2 year</i>
<i>Science</i>	<i>2 years</i>		
- High School deficiencies <b>must</b> be satisfied at the college level. Five credits (quarter system) equal one year of high school study * <i>Students whose first language is not English need to check at</i> <a href="http://admit.washington.edu/BeforeYouApply/Transfer/Requirements/Core/English/Alternatives">http://admit.washington.edu/BeforeYouApply/Transfer/Requirements/Core/English/Alternatives</a> .			

AREAS OF KNOWLEDGE	Qtr	Cr
<i>Visual, Literary &amp; Performing Arts</i> (use 5 cr Humanities from Assoc in Science)	10 credits	
<i>Individuals and Societies -</i> (use 5 cr Social Sciences from Assoc in Science)	10 credits	
<b>Additional VLPA or I&amp;S</b> (use 5 cr Multicultural from AS)	4-10 credits, varies by department	

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**UW College of Engineering**  
**General Education Requirements for**  
**Graduation** (may be taken before or after admission)

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It is generally recommended that about half of the VLPA and I&S requirement be taken during the first two years of study. If you meet the requirements for the Associate in Science Track 2, you will have 15 credits. The total VLPS and I&S requirement for each department is between 24 and 30 and is available at <http://www.engr.washington.edu/advising/vlpa-is.html>.

**This is a sample first & second year curriculum for students ready to start calculus and taking a full-time course schedule. Each student must plan her/his own schedule using math and English placement information and taking into account other responsibilities such as work and family. Many students take three years to complete these course sequences. See your advisor for assistance.**

Fall		Winter		Spring			
ENGR& 114, Engr Graphics	5	ENGR& 115, Eng Problems	5	ENGR& 214, Statics	5	ENG 101	5
MATH& 151, Calculus	5	MATH& 152, Calculus	5	MATH& 163, Calculus	5	Multicultural or	5
CHEM& 171/181, Chem/Lab or CS 121	4-6.5	CHEM& 171/181 or 172/182, Chem/Lab	6.5	CHEM& 172/182 or 173/183 or CS 121 or ENGR 202 or 205	3-6.5	Social Science or Humanities or CS& 141 or CHEM 172/182	
ENGR 100, Orientation to Engr (optional, Fa,Wi,Sp)							
Fall		Winter		Spring			
PHYS& 221/231, Phys/Lab	5.5	PHYS& 223/233, Waves	5.5	PHYS& 222/232, Electr	5.5	Multicultural or	5
ENGR& 225 (most majors)	5	ENGR& 215 (most majors) or ENGR& 204	5	ENGR 170 or &224 or CS 143	5	Social Science and/or Humanities	5
MATH 207 or CS 141 or ENGL& 230 (3cr)	5	MATH 208 or CS 141	5	MATH 207 or &264 or ENGL& 230 (3cr)	5		

**Student individualized plan:**

FALL	WINTER	SPRING	SUMMER
FALL	WINTER	SPRING	SUMMER
FALL	WINTER	SPRING	SUMMER

## Upper-Division Admission Requirements

### MATHEMATICS (24 cr minimum for graduation)

Course # / SCC #	Cr	Title	AA	BIO E	CHME	CEE	COMP E	EE	IE	ME	MSE	PSE
MATH 124,125,126/ <b>151,152,163</b>	(5,5,5)	Calc 1,2,3	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
MATH 307 / <b>207</b>	(3)	Diff Equations	◆	◇	◆	◇		◇	◇	◇	◆	◆
MATH 308 / <b>208</b>	(3)	Matrix Algebra	◆	◇	◇	◆	◇	◇	◇	◇	◇	
MATH 324 / <b>264</b>	(3)	Adv Calculus I	◆+					◇		<b>R**</b>	◇*	

◆+MATH 324 must be taken no later than Autumn Quarter of admission.

**R\*\*ME** requires either MATH 309, 324, or AMATH 353.

◇\* Materials Science & Engineering – must select one of the four courses as a math elective (this is for graduation not admission).

Many departments require or recommend an engineering statistics course during the junior year at the UW.

### NATURAL SCIENCES

Course # / SCC #	Cr	Title	AA	BIO E	CHME	CEE	COMP E	EE	IE	ME	MSE	PSE
BIOL 180, 200 / <b>BIOL 211, 212</b>	(5,5)	Intro Biology		◆								
CHEM 142 / <b>171+181</b>	(5)	Gen Chem I/lab	◆	◆	◆	◆	<b>R</b>	◆	◆	◆	◆	◆
CHEM 152/ <b>172+182</b>	(5)	Gen Chem II/lab	<b>R</b>	◆	◆	◇			◆	◆	◆	◆
CHEM 162/ <b>173+183</b>	(5)	Gen Chem III/lab		◆	◆							◆
CHEM 223 or 237	(4)	Org Chem /SCC <b>241</b>		◇	◆							◆
CHEM 224 or 238	(4)	Org Chem /SCC <b>242</b>			◇							◇
PHYS 121 / <b>221+231</b>	(4/1)	Mechanics/lab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
PHYS 122 / <b>222+232</b>	(4/1)	Elec & Mag/lab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
PHYS 123 / <b>223+233</b>	(4/1)	Waves/lab	◆	◇	◆	◇	<b>R</b>	◇	◆	◇	◇	◇

### WRITTEN AND ORAL COMMUNICATION (12 cr minimum for graduation)

Course # / SCC #	Cr	Title	AA	BIO E	CHME	CEE	COMP E	EE	IE	ME	MSE	PSE
Engl Comp/ ENGL <b>101</b>	(5)		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
TC 231 /ENGL& <b>230</b>	(3)	Tech Writing	◆	◇	◇	◇	◇	◇	◇	◆	◇	◇

An additional course in communication will be taken during the junior or senior year at the UW.

### ENGINEERING FUNDAMENTALS

Course # / SCC #	Cr	Title	AA	BIO E	CHME	CEE	COMP E	EE	IE	ME	MSE	PSE
ME 123/ENGR <b>114+205</b>	(4)	Visualization & CAD								◇	◇*	
AMATH 301	(4)	Scientific Computing	◆+		◆*	◆*				◇	◆*	
CSE142/CS <b>141</b>	(4)	Computer Prog I		◆**	◆*		◆	◇	◇			◆*
CSE143/CS <b>143</b>	(5)	Computer Prog II		◇			◆	◇				
MSE 170/ENGR <b>170</b>	(4)	Materials Science							◇	◇	◆	
AA 210/ ENGR <b>214</b>	(4)	Statics	◆			◆			◇	◆	◇	
EE 215/ENGR <b>204</b>	(4)	Fund Elec Engr		◇			◇	◇	◇	◇		
CEE 220/ENGR <b>225</b>	(4)	Mech of Mtls	◆			◆			◇	◆	◇	
ME 230/ENGR <b>215</b>	(4)	Dynamics	◆			◆			◇	◆		
IND E 250	(4)	Engr Econ							◇			
CHEM E 260 /E <b>224</b>	(4)	Thermo	◆	◇	◆							◆

◆\* Either AMATH 301 or CSE 142 will be accepted by CHEM E, CEE & MSE.

◆+ AMATH 301 must be taken no later than Autumn quarter of admission (AA).

◆\*\* CSE 142 may be taken at time of admission (BIO E)

◆ REQUIRED for upper-division admission. Courses generally must be completed before application deadline. Contact an advisor if courses will be in-progress at the time of application.

◇ REQUIRED for graduation (Bachelors Degree), but not for admission. These may be taken after you transfer.

**R** Recommended as a good choice to complete subject area requirement.

<b>AA</b>	Aeronautics & Astronautics
<b>BIO E</b>	Bioengineering
<b>CHME</b>	Chemical Engineering
<b>CEE</b>	Civil & Environmental Engineering
<b>COMP E</b>	Computer Engineering
<b>EE</b>	Electrical Engineering
<b>IND E</b>	Industrial Engineering
<b>ME</b>	Mechanical Engineering
<b>MSE</b>	Materials Science & Engineering
<b>PSE</b>	Paper Science and Engineering

## Departmental and Program Undergraduate Contact Information

To access departmental information over the World Wide Web, begin with the College of Engineering home page at <http://www.engr.washington.edu>, then click on Academic Departments and then choose the department of your choice.

**When mailing information to the individuals listed below, the rest of the mailing address is:**

*University of Washington, Seattle, WA 98195-\_\_\_\_ (use the last four digits of the campus box number)*

## STUDENT SUPPORT PROGRAMS

### Engineering Advising & Diversity Center

301 Loew Hall, Box 352180

206/543-1770 – email: [eadc@engr.washington.edu](mailto:eadc@engr.washington.edu)

### Pre-Engineering Advising / Interdisciplinary Engr

Dave Drischell – 206/543-1770

email: [engradv@engr.washington.edu](mailto:engradv@engr.washington.edu)

### Engineering Co-op Program

Dawn Wiggin – 206/543-8711

email: [coop@engr.washington.edu](mailto:coop@engr.washington.edu)

### Minority Scholars Engineering Program (MSEP)

Scott Pinkham – 206/221-7769

email: [spinkham@u.washington.edu](mailto:spinkham@u.washington.edu)

### Women in Science & Engineering (WISE)

Cathryne Jordan – 206/685-4849

email: [uwwise@u.washington.edu](mailto:uwwise@u.washington.edu) or

[jordan@engr.washington.edu](mailto:jordan@engr.washington.edu)

## *DO-IT (Disabilities, Opportunities, Internetworking, and Technology) Program*

3737 Brooklyn Ave NE, Suite 12, Box 355670

Sheryl Burgstahler OR Sara Lopez -- 206/685-DOIT

email : [doit@u.washington.edu](mailto:doit@u.washington.edu)

## ENGINEERING DEPARTMENTS

### Aeronautics & Astronautics

328 Condon Hall, Box 352400

Marlo Anderson – 206/616-1115

email: [ugadvising@aa.washington.edu](mailto:ugadvising@aa.washington.edu)

### Bioengineering

1701 NE Pacific St., N107, Box 355061

Kelli Jayn Nichols – 206/685-2022

email: [bioeng@u.washington.edu](mailto:bioeng@u.washington.edu)

### Chemical Engineering

105 Benson Hall, Box 351750

Devota Madrano – 206/543-2252

email: [advising@cheme.washington.edu](mailto:advising@cheme.washington.edu)

## ENGINEERING DEPARTMENTS (CONT')

### Civil and Environmental Engineering

201 More Hall, Box 352700

Mariko Navin – 206/543-5092

email: [ceadvice@u.washington.edu](mailto:ceadvice@u.washington.edu)

### Computer Engineering

AC101 Allen Center, Box 352350

Crystal Eney / Megan Reardon / Monica Duke/Raven Avery

Phone: 206/543-1695

email: [ugrad-advisor@cs.washington.edu](mailto:ugrad-advisor@cs.washington.edu)

### Electrical Engineering

AE 100L Allen Center, Box 352500

Erin Peinado, Erica Coleman

Phone: 206/543-2142

email: [undergrad@ee.washington.edu](mailto:undergrad@ee.washington.edu)

### Industrial Engineering

G7 ME Building, Box 352650

206/543-5041

email: [ieadvise@u.washington.edu](mailto:ieadvise@u.washington.edu)

### Materials Science & Engineering

302A Roberts Hall, Box 352120

Kathleen Elkins – 206/616-6581

email: [kelkins@u.washington.edu](mailto:kelkins@u.washington.edu)

### Mechanical Engineering

143 ME Building, Box 352600

Margo Segimoto / Mee-Ling Hon / Matthew Wanderski

Phone: 206/543-5090

email: [meadvise@u.washington.edu](mailto:meadvise@u.washington.edu)

### Paper Science and Engineering

116 Anderson Hall, Box 352100

Michelle Trudeau OR Debra Salas-Haynes – 206/543-7081

email: [cfradv@u.washington.edu](mailto:cfradv@u.washington.edu)

### Technical Communication

211 & 306 Engineering Annex , Box 352195

Gian Bruno OR Karen Kasonic

206/543-1798 or 616-0797

email: [tc@u.washington.edu](mailto:tc@u.washington.edu)

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*The University of Washington reaffirms its policy of equal opportunity regardless of race, color, creed, religion, national origin, sex, sexual orientation, age, marital status, disability, or status as a disabled veteran or Vietnam era veteran in accordance with University policy and applicable federal and state statutes and regulations. The University of Washington is committed to providing access, equal opportunity and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation contact the Disability Services Office at least ten days in advance at: 206-543-6450/V, 206-543-6452/TTY, 206-685-7264 (FAX), or [dso@u.washington.edu](mailto:dso@u.washington.edu).*

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