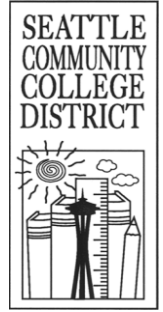




ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS OPTION #2



Engineering Computer Science Physics Atmospheric Science

Effective Fall 2009

Program Code: 0014

Students who are considering majoring in science, math or a health profession at a four-year university or college have several Associate of Science transfer degree options at North Seattle Community College. Associate of Science degrees are designed to allow students to complete many of the prerequisite math or science courses essential for these majors, as well as some general education courses.

The Associate of Science Option #2 is designed to allow students to complete 65 or more math/science credits of pre-major, laboratory and major track sequence prerequisite courses required or recommended for those intending to major in Engineering, Computer Science, Physics, Math or Atmospheric Science. The remaining credits include 5 credits of ENGL &101 (Composition), 15 credits of Areas of Knowledge distribution requirements (Visual, Literary and Performing Arts and Individuals, Cultures and Societies) and other courses chosen with the help of an advisor. Students completing the A.S. Option #2 will finish their general education graduation requirements at the four-year institution. This is a good option for math/science majors that require more than 40 credits of math and science classes for admission into 4-year college or university programs.

Students wishing to earn the Associate of Science Option #2 degree must earn 90 credits in courses numbered 100 and above with a cumulative grade point average of 2.0 or better, including grades transferred from other colleges. At least 15 credits must be earned from the Seattle Community College District college granting the degree.

Students should meet with an academic advisor and are encouraged to consult with faculty in their major, as well as their intended four-year transfer institution, to determine which degree will best serve their needs and for guidance in course selection. **It should not be assumed that completing this degree constitutes completion of the general college or university requirements of the transfer institution.**

Faculty Contacts:

Biological Science

Suzanne Schlador
Anne Murkowski
Heidi Iverson
Elizabeth Goulet

Chemistry

Jackie Hong
Jim Patterson
Kayln Owens

Tracy Furutani

Computer Science

Dennis Schaffer
Barbara Goldner
Vince Offenback

Earth Science

Tracy Furutani

Engineering

Dennis Schaffer
Vince Offenback

Environmental Science

Tracy Furutani
Anne Murkowski
Elizabeth Goulet

Physics

Steve Anderson
Davene Eyres

Mathematics

Deanna Li
Denise Brannan
Barbara Goldner
Pam Lippert
Ralph Jenne
Paul Kurose
Hon Li
Harry Watts
Edgar Jasso

Areas of Knowledge Distribution Requirements for AS Options #1 & 2 degrees (15 credits)

Choose a minimum of 5 credits in Visual, Literary and Performing Arts (VLPA-Humanities) and 5 credits in Individuals, Cultures and Societies (ICS-Social Sciences), and an additional 5 credits in either category for a **total of 15 credits**. A maximum of 5 credits of foreign language at the 100 level and a maximum of 5 credits in studio/performance classes may be applied to Visual, Literary and Performing Arts.

Please check the equivalency guide (www.northseattle.edu/services/transfer/eguide.htm) of the four-year institution you plan on transferring to in order to ensure the NSCC VLPA or ICS course transfers as a VLPA (Humanities) or ICS (Social Sciences) to that institution.

*VISUAL, LITERARY, AND PERFORMING ARTS (Humanities and Arts)

Art: ART &100, 101*, 102*, 103*, 104, 105, 110*, 111*, 112*, 113*, 114*, 115,* 121*, 122*, 123*, 163, 166*, 170, 201*, 202*, 203*, 205*, 206*, 207*, 210*, 211*, 212*, 213*, 214*, 215*, 216*, 217*, 221*, 222*, 223*, 251, 252, 253, 254, 255, 281*, 282*, 283*, 284*, 285*, 290, 291
 American Sign Language: ASL &121, &122, &123, 210, &221, &222, &223
 Chinese: CHIN &121, &122, &123, &221, &222, &223
 Communication: CMST &101, &102, 115, 145, 155, 175, 185, 195, 205, &210, 215, &220, &230, 235, 245, 255, 265, 275, 285, 295
 Drama: DRMA &101, 103, 105, 108*, 109*, 110*, 112, 114*, 116*, 120*, 121*, 122*, 123*, 131, 182*, 204*, 205*, 206*, 221*, 222*, 223*, 284, 285, 286
 English: ENGL 104, 109, &111, &112, &113, &114, 117, 151, 152, 153, 201, 204, 205, 214, 218, 219, &224, &225, &226, &227, &228, 231, 232, 233, 240, 241, &244, &245, &246, 251, 252, 253, &254, &256, 257, 258, 259, 260, 263, 265, 266, 267, 270, 291, 292, 293

French: FRCH &121, &122, &123, 204, 205, 206, 212, &221, &222, &223, 231, 232, 233
 German: GERM &121, &122, &123
 Humanities: HUM 104, 105, 110, 115, &116, &117, &118, 120, 125, 150, 160, 200, 210, 234, 261, 270
 Italian: ITAL 121
 Japanese: JAPN &121, &122, &123, &221, &222, &223
 Journalism: JRN 101, 102, 103
 Linguistics: LAN 101, 110 Literature: LIT 236, 238
 Music: MUSC 100, 106, 109, 110, 113, 116, 117, 119*, 120*, 125, 126*, 127*, 128*, 130*, 134 - 140*, &141, &142, &143, 144*, 145*, 146*, 147*, 148*, 150*, 151*, 156*, 157*, 158*, 160, 161, 163, 164*, 165*, 166*, 171*, 172*, 173*, 182*, 185, 204, 205, 213, 221*, 222*, 223*, &231, &232, &233
 Russian: RUSS &121, &122, &123
 Spanish: SPA &121, &122, &123, &221, &222, &223, 236, 238
 Vietnamese: VIET &121, &122, &123

*INDIVIDUALS, CULTURES, AND SOCIETIES (Social Sciences)

American Ethnic Studies: AME 150, 151, 160, 201
 Anthropology: ANTH &100, &106, 113, &125, 130, 135, 201, &206, &210, 211, 212, 213, &216, &228
 American Sign Language: ASL 120, 125
 Economics: ECON 100, 102, &201, &202
 Environmental Science: ENV 150, 202
 Geography: GEG 100, 200, 207, 230, 260
 History: HIST 105, 106, 108, 120, &126, &127, &128, 131, &136, &137, 138, 140, 145, &146, &147, &148, 150, 191, 200, 208, 210, 211, 212, &214, &219, 221, 230, 241, 242, 251, 268, 269, 273 International Studies: ISP 101, 105, 110, 120, 160, 170, 201, 205, 210, 220, 234, 251, 255, 260, 261, 270

Philosophy: PHIL &101, 102, 110, 111, 118, 160, 215, 220, 240, 245, 250, 255, 267
 Political Science: POLS &101, 111, 112, 170, &200, &202, &203, 205, 206, 213, 220, 255
 Psychology: PSYC &100, 120, &200, 207, 209, 210, 217, &220, 230, 235, 245, 250, 255, 257, 294
 Religion: REL 150, 151
 Sociology: SOC &101, 102, 105, 106, 107, 120, 130, 150, 170, &201, 220, 230, 245, 250, 265, 275, 280
 Social Science: SSC 101, 103, 187
 Social Welfare: SWF 200
 Women's Studies: WMN 140, 200, 205, 213, 257

Courses with "&" are part of a new statewide common course numbering system.
 Visit www.seattlecolleges.edu/commoncoursenumbering/ for more information.

**NSCC Associate of Science Degree
Option #2
Major Track Course Options**

General: Depending on initial placement, students may need to pursue pre-calculus mathematics courses and include them as part of the degree requirements under Major Tracks/Remaining Credits. For all four options below students should pursue MATH &153 and the Physics 200 series options under the pre-major requirements. **Math and/or science sequences should be completed at the same institution.**

Departments at different transfer institutions could require different pre-program courses. Students are responsible for checking specific major requirements of their intended transfer institutions.

Engineering: See grid on page 5. The various engineering degrees differ in their requirements.

Computer Science:

- Major Track Course Options:

CSC 110	5 credits
CSC 142	5
CSC 143	5
MATH 238	5
MATH 220	5

- Remaining Credits: These could include prerequisite classes: **PHYS &121, MATH &141, MATH &142, MATH 102, MATH 120**

Physics/Atmospheric Science:

- *Major Track Course Options*

CSC 110	5 credits
CSC 142	5
MATH 238	5
MATH 220	5
MATH 224	5

- Remaining Credits: These could include prerequisite classes: **PHYS &121, MATH &141, MATH &142, MATH 102, MATH 120**

Associate of Science Engineering Major Track Course Options

Based on UW Engineering admission and graduation requirements and recommended courses.
(Check with your advisor and intended transfer institution for other specific program requirements).

Major Engineering Area:	AA	BIO E	CHM E	CEE	COMP E	EE	IND E	ME	MSE	PSE
Major Track Courses: (UW Admission Requirements) <i>*Check with advisor and intended transfer institution for other specific program requirements.</i>	MATH 238	BIOL &211	MATH 238	MATH 220	CSC 142		CHEM &162	CHEM &162	MATH 238	MATH 238
	MATH 220	BIOL &212	CHEM &162	ENGR &214	CSC143			ENGR &214	CHEM &162	CHEM &162
	ENGR &214	CHEM &162	CHEM &163	ENGR &225				ENGR &225	ENGR 170*	CHEM &163
	ENGR &225	CHEM &163	CHEM &241	ENGR &215				ENGR &215	CSC 142	CHEM &241
	ENGR &215	CSC142	ENGR &224*	CSC142				ENGL &230		ENGR &224*
	ENGL &230		CSC142							
	ENGR &224*									
Recommended Major Track Courses (UW graduation requirements and other recommended courses)	CHEM &162	MATH 220	MATH 220	MATH 238	MATH 220	MATH 238	MATH 220	MATH 220	MATH 220	ENGL &230
		MATH 238	CHEM &242	CHEM &162	ENGR &204	MATH 220	MATH 238	MATH 238	ENGL &230	CHEM &242
		CHEM &241	ENGL &230	ENGL &230	ENGL &230	CSC 142	CSC 142	ENGR &204	ENGR &214	
		CSC 143		ENGR &224*		CSC 143	ENGR &214	ENGR &111*	ENGR &204	
		ENGL &230				ENGL &230	ENGR &225	ENGR 170*	ENGR &225	
		ENGR &204				MATH 224	ENGR &215	ENGR &224*	ENGR &215	
		ENGR &224*				ENGR &204	ENGR &204	MATH 224	ENGR &111*	
							ENGL &230		ENGR &224*	
Possible Prerequisites	CHEM &121,&139, PHYS &121, CSC 110, MATH &141, MATH &142, MATH 102, MATH 120 (These classes apply to all Engineering areas)									

* Note: ENGR 170, ENGR &224 and ENGR &111 are offered only irregularly. If not available, consider other options.

AA	Aeronautics & Astronautics	EE	Electrical Engineering
BIO E	Bioengineering	IND E	Industrial Engineering
CHM E	Chemical Engineering	ME	Mechanical Engineering
CEE	Civil & Environmental Engineering	MSE	Materials Science (Ceramic/Metallurgical)
COMP E	Computer Engineering	PSE	Paper Science and Engineeri

