



South Seattle College
Civil and Mechanical Engineering AS-T/MRP
(includes Environmental, Aeronautical and Industrial Engineering)
Program Plan Code: MEEMCAS

- Completion of all credits with a minimum cumulative GPA of 2.0 is required. (Note: GPA only includes courses taken at South)
- At least 15 credits must be earned at South Seattle College.
- Students should apply for the degree one quarter prior to the anticipated graduation date.
- Completion of the degree does not guarantee admission to a university, or admission into a major program.

Basic Requirements		30 credits	
English Composition – 5 credits		☐ ENGL& 101	5
Mathematics – 25 credits		☐ MATH& 151	5
		☐ MATH& 152	5
		☐ MATH& 163	5
		☐ MATH 220	5
		☐ MATH 238	5
Distribution Requirements		15 credits	
Visual, Literary and Performing Arts (VLPA) & Individuals, Cultures and Societies (IC&S) 15 combined credits in VLPA -AND- IC&S Minimum 5 credits in each area Recommended IC&S course: ECON&201 or ECON&202		☐ VLPA:	5
		☐ IC&S:	5
		☐	5
Physics & Chemistry Requirements		27 credits	
Physics – 15 credits PHYS& 221 prerequisite: MATH& 151 with 2.0 or higher. PHYS& 222 prerequisite: MATH& 152 and PHYS&221 with 2.0 or higher. Chemistry – 12 credits CHEM&161 prerequisite: CHEM&139 with 2.0 or higher or passing score on chemistry placement exam, AND MATH&141 with a 2.0 or higher.		☐ PHYS& 221	5
		☐ PHYS& 222	5
		☐ PHYS& 223	5
		☐ CHEM&161	6
		☐ CHEM&162	6
Engineering Core		15 credits	
ENGR& 214 prerequisite: MATH& 151 and PHYS&221 with 2.0 or higher. MATH&152 may be taken concurrently. ENGR& 215 prerequisite: ENGR& 214 with a 2.5 or higher and MATH& 152 with 2.0 or higher. ENGR& 225 prerequisite: ENGR& 214 and MATH& 152 with 2.0 or higher.		☐ ENGR& 214	5
		☐ ENGR& 215	5
		☐ ENGR& 225	5
Engineering Electives		18-21 credits	
Select a minimum of 4 courses in consultation with an advisor. Electives should be chosen to prepare for your intended major and your intended transfer institution(s). Any course from the list below may be used as an elective. ENGR& 114 (3), 204 (5), 224 (5) BIOL& 211 (5) CHEM& 163 (6)		☐	
		☐	
		☐	
		☐	
		Total credits: 105-108	
• Civil and Mechanical Engineering programs are competitive and may require a higher GPA than 2.0 overall. Minimum GPA requirements are established by each participating institution. Meeting the minimum GPA does not guarantee admission. • Admission deadlines for transfer institutions vary, and students are required to meet the transfer admission deadline. • Students are strongly encouraged to enroll in math and science sequence courses at a single institution and, if possible, not break up sequenced courses between institutions. • Certain institutions may have additional "institution-specific" requirements for admission to the institution that are not prerequisites specifically identified in the Civil and Mechanical Engineering AS-T/MRP requirements.		Create an Education Plan with your advisor to plan out your courses for this degree and transfer university requirements. For more information, please visit: www.southseattle.edu/advising	



Areas of Knowledge Distribution Requirements for AA-DTA, AB, AS-T

For the most current course offerings that satisfy Areas of Knowledge Distribution Requirements, consult the class schedule and filter by Course Attribute/Course Attribute Value: southseattle.edu/class-schedule. Course offerings for each area of knowledge may differ at other colleges and may be transferred to satisfy requirements at South Seattle College.

Visual, Literary & Performing Arts (VLPA)	Subjects include: ART, CMST, DRMA, ENGL, HUM, MUSC, SPAN Maximum 10 credits per subject. No more than 5 credits of world language may be used in this category. No more than 5 credits of a studio/performance may be used in this category. ART 101, 111, 112, 113, 201, 202, 203, 210, 214, 215, 220, 221, 222, 223, 224, DRMA 120, MUSC 126, 127, 128, 140, 167, and all individual instruction MUSC courses.
Individuals, Cultures & Societies (IC&S)	Subjects include: AME, ANTH, ART*, CMST*, ECON, ENVS, GEOG, HIST, HUM*, INFO*, PHIL, POLS, PSYC, SOC, WMN <i>subjects with asterisk* indicate that NOT ALL courses in that subject will satisfy this requirement.</i> Maximum 10 credits per subject.
Natural World (NW)	Subjects include: ASTR, BIOL, CHEM, ENVS, GEOL, HEA, NUTR, PHYS Maximum 10 credits per subject. Minimum 5 credits must be in lab science.
Restricted Natural World (NW)	Maximum 5 credits from the following subjects: CSC, ENGR, PSCY 222, MATH numbered 102 and above (professional/technical math courses not allowed).
ELECTIVES	All College Transfer courses numbered 100 or above may be used as electives. Courses titled "Independent Study, Seminar, Special Problems and Special Topics" may be used as Electives only. Maximum of 3 credits PEC. Maximum 15 credits of restricted electives, which include HDC, INFO, STEM, and all professional-technical courses numbered 100 or above.

Special Requirements (AA and AB only)

Within the 90 credits required for the AA and AB degrees, students must complete special requirements, which overlap across multiple distribution areas. Check the online class schedule for current offerings.

US Cultures	AME 110, 201, 202, 203, ANTH 272, CMST 205, 260, DRMA 125, ENGL &245, &246, 231, 258, 260, GEOG 272, 277, HIST &146, &147, &148, &214, 140, HUM 105, 151, 201, 210, MUSC 116, 117, 160, 161, PHIL 111, POLS &202, 210, 249, 264, PSYC 245, SOC &101, 245, 249, WMN 200
Communication	CMST &101, &210, &220, &230, 155, 205, 245, 260, 275, DRMA 105, DRMA 125, ENGL &237, 119, 151, 152, 293, HUM 105, 119, 130, 151, POLS &201, PSYC &200, 245, SOC 245
Global Studies	ANTH &100, 206, 227, ART 170, BIOL 150, CMST &101, DRMA 105, ECON &202, ENGL &256, 116, 119, 252, 261, 293, ENVS &100 150, 160, GEOG &100, HIST &126, HIST &127, 128 170, 211, HUM 107, 119, 120, 126, 130, 220, MUSC 109
Integrated Studies	AME 110 201, ANTH &227, ART &100, 170, ASTR 125, DRMA 105, 125, ECON &202, ENGL &245, &246, &256, 119, 252, 258, 260, 269, ENVS 150, ENVS 160, HIST &126, &127, &146, &147, &148, &214, 140, 211, 240, HUM 105, 107, 119, 120, 130, 151, 210, MUSC 109, 116, 117, 160, 161, PHIL &101, 111, POLS &202, &203, 210, PSYC 245, WMN 200, 269