



Associate in Science (AS-T/MRP) Transfer Degree

Planning Worksheet 2017-18

Mechanical, Civil, Aeronautical, Environmental, Industrial, and Materials Science Engineering

Student:

READ THIS FIRST:

- Start your degree with math and English. No degree plans can be done without math and English placement.
- The final responsibility for understanding and fulfilling all graduation requirements rests with each student.

Preparatory math as necessary: MATH 97 MATH 98 MATH 99 MATH& 141 MATH& 142

Pre-Reqs	Course	Credits	Taken
CORE REQUIREMENTS: MATH			
MATH& 142 with C or better	MATH& 151	Calculus I	5
MATH& 151 with C or better	MATH& 152	Calculus II	5
MATH& 152 with C or better	MATH& 163	Calculus III	5
MATH& 151 with C or better	MATH 204	Introduction to Linear Algebra	5
MATH& 152 with C or better	MATH 207	Taylor Series	1
MATH& 151 with C or better	or MATH 208	Sequences and Series	3
MATH& 152 with C or better	MATH 238	Introduction to Differential Equations	5
Subtotal			26-28

CORE REQUIREMENTS: SCIENCE AND ENGINEERING			
Prior or concurrent MATH& 141; placement in ENGL& 101	ENGR 101	Introduction to Engineering	5
Note: ENGR 101 may be waived for students entering the pathway with advanced standing (MATH&152 or higher).			
MATH& 141 with C- or better. Recommended: CHEM& 121 or one year high school chemistry	CHEM& 161	General Chemistry with Lab I	5
CHEM& 161 with C- or better	CHEM& 162	General Chemistry with Lab II	5
MATH& 152 with C or better; PHYS& 221 with C or better; placement in ENGL&101	ENGR& 214	Statics	5
MATH& 163 with C or better; PHYS& 221 with C or better; ENGR& 214 with C or better	ENGR& 215	Dynamics	5
ENGR& 214 with C or better	ENGR& 225	Mechanics of Materials	5
MATH& 151 with C- or better; placement in ENGL& 101; previous college physics course or high school physics	PHYS& 221	Engineering Physics I	5
MATH& 152 with C- or better; PHYS& 221 with C- or better; placement in ENGL& 101	PHYS& 222	Engineering Physics II	5
PHYS& 222 with C- or better	PHYS& 223	Engineering Physics III	5
Subtotal			40-45

PROGRAM-SPECIFIC REQUIREMENTS

Students must complete a minimum of four additional courses selected from the following list, according to intended major and transfer university requirements.

CS 140	CS 145	Computer Programming Fundamentals II	
MATH& 163 with C or better. Recommended: prior / concurrent MATH 204 and MATH 207	or ENGR 240	Applied Numerical Methods	5
Note: Credit for both CS 145 and ENGR 240 cannot be applied to this requirement.			

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Pre-Reqs		Course		Credits	Taken
		program-specific requirements list continued from previous page			
ENGL& 101 with C- or better	ENGL& 230	Technical Writing	3		
ENGL& 101 with C- or better	or ENGL& 235	Technical Writing	5		
Note: Credit for both ENGL& 230 and ENGL& 235 cannot be applied to this requirement.					
Prior or concurrent MATH& 141. Recommended: ENGR 101	ENGR& 114	Engineering Graphics	5		
MATH& 152 with C or better or both MATH& 142 and ENGR 101 with grades of C or better; placement in ENGL& 101	ENGR 151	Introductory Design and Computing	5		
PHYS& 223 with C or better; prior or concurrent MATH 238; placement in ENGL& 101. Recommended: ENGR 151 and MATH 204	ENGR 204	Electrical Circuits	6		
MATH& 163 with C or better	MATH& 264	Calculus IV	5		
			Subtotal	18-21	
GENERAL EDUCATION REQUIREMENTS					
ENGL 95 or placement in ENGL& 101	ENGL& 101	English Composition I	5		
Varies; see catalog	Any course designated as humanities (H)		5		
Varies; see catalog	Any course designated as social sciences (SS)		5		
Varies; see catalog	Any additional course designated as humanities (H) or social sciences (SS)		5		
Note: See an advisor for help choosing appropriate courses in this area. Depending on the major and the transfer institution, certain courses are preferred.					
			Subtotal	20	
			Total	104-112	
ADDITIONAL GRADUATION REQUIREMENTS					
		Minimum of 15 college-level credits at Whatcom Community College			
		Minimum 2.0 overall GPA in courses applied to this degree			
ADVISOR RECOMMENDATIONS					
		<ul style="list-style-type: none"> • Complete each science sequence at a single college. 			
		<ul style="list-style-type: none"> • Specific majors at each university may have different/additional prerequisites/GPA requirements. Check with your intended university for details. 			
		<ul style="list-style-type: none"> • University of Washington requires foreign language for admission: two years of a single language in high school, or two quarters of a single language in college. Some majors also require a third year/quarter for graduation. 			
Fall 2017				Revised 5/17/2017	