



Program Completion Guide

ASSOCIATE IN APPLIED SCIENCE - MECHANICAL ENGINEERING TECHNOLOGY (A40320)

Student Name: _____ ID#: _____ Date of Enrollment: _____

Section I: Developmental Courses (if needed)

Courses	Scores	Cr.	Prerequisites/ Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl	Minimum of 75 on ACCUPLACER	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations		1	Pre: DMA 010-070 or MAT 060 or MAT 070		
DRE 096 Integrated Reading and Writing	72-91 +	3	Pre: None		
DRE 097 Integrated Reading Writing II	91-128 +	3	Pre: DRE 096		
DRE 098 Integrated Reading Writing III	129-165 +	3	Pre: DRE 097		
	+ Reading Comprehension PLUS Sentence Skills Scores				

Section II:

A. Mechanical Engineering Technology/Computer-Aided Drafting Certificate (C40320) Course Requirements 17 credit hours: Complete Section I (as required) and Section II, A.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
DFT 110 Basic Drafting	2	1 st year - fall	None		
DFT 151 CAD I*	3	1 st year - fall	Pre: DMA 010-030 or MAT 060, DRE 097 or RED 080		
DFT 152 CAD II*	3	1 st year - spring	Pre: DFT 151		
DFT 115 Architectural Drawing	2	1 st year – spring	Pre: DFT 151		
DFT 153 CAD III*	3	2 nd year – fall	Pre: DFT 151		

B. Mechanical Engineering Technology Diploma (D40320) Course Requirements 41 credit hours: Complete Sections I (as required) and Section II, A, and B. (Also must take one Humanities/Fine Arts elective)

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 st year - fall	None		
MAT 171 Precalculus Algebra	4	1 st year - fall	Pre: DMA 010-080 or MAT 080		
MEC 161 Manufacturing Processes I*	3	1 st year - fall	None		
ENG 111 Writing and Inquiry	3	1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
ISC 132 Manufacturing Quality Control	3	2 nd year – fall	None		
MAT 172 Precalculus Trigonometry	4	1 st year - spring	Pre: MAT 171		
PHY 151 College Physics I	4	2 nd year – fall	Pre: DRE 098 or RED 090, MAT 171		
MEC 180 Engineering Materials	3	2 nd year-Spring	None		



C. Mechanical Engineering Technology Associate in Applied Science Degree Course Requirements 69 credit hours: Complete Section I (as required) and Section II, A, B, and C.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ENG 112 Writing/Research in the Disciplines	3	1 st year - spring	Pre: ENG 111		
MAT 271 Calculus I	4	2 nd year - fall	Pre: MAT 172		
EGR 250 Statics/Strength of Materials*	5	2 nd year - fall	Pre: MAT 172		
PLA 120 Injection Molding	3	2 nd year - fall	Pre: DMA 010-030 or MAT 060, DRE 097 or RED 080		
HYD 110 Hydraulics/Pneumatics I	3	2 nd year – spring	Pre: DMA 010-030 or MAT 060		
MEC 110 Introduction to CAD/CAM	2	2 nd year – spring	Pre: DMA 010-060 or MAT 070, DRE 097 Co: DRE 098		
MEC 270 Machine Design	4	2 nd year – spring	Pre: DFT 151, EGR 250, MEC 180		
MEC 271 Machine Design Project	1	2 nd year – spring	Pre: DFT 151, EGR 250, MEC 180 Co: MEC 270		

Electives: (All degree seeking students must take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits) (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).**

Courses offered at RCC:
ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, REL 212, SPA 211

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	1 st year - spring		

Social/Behavioral Sciences Electives (3 hours) (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY, and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.)**

Courses offered at RCC:
ANT 220, HIS 111, HIS 112, HIS 131, HIS 132, PSY 150, PSY 241, SOC 210, SOC 213

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	2 nd year - spring		

NOTES: *Core Courses: Must have a grade of "C" or better.
**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.
I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must do the following or it may affect my ability to graduate on time.

- Complete all core courses with a grade of C or better.
- Successfully complete all courses.
- Follow the established course sequence.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name: _____ Student Signature: _____ Date: _____

Advisor Name: _____ Advisor Signature: _____ Date: _____

Student Name: _____ Student Signature: _____ Date: _____

Advisor Name: _____ Advisor Signature: _____ Date: _____

Student Name: _____ Student Signature: _____ Date: _____

Advisor Name: _____ Advisor Signature: _____ Date: _____

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Advisor Name: _____ Advisor Signature: _____ Date: _____