



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 <i>(Required if taking MAT 171)</i>	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation <i>(Required if taking MAT 171)</i>		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations <i>(Required if taking MAT 171)</i>		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097		

**Section II:**

**A. Mechanical Engineering Technology/Computer-Aided Drafting Certificate (C40320) Course Requirements 13 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 <sup>st</sup> year - fall	None		
DFT 151 CAD I*	3	1 <sup>st</sup> year - fall	Pre: DMA 010-030 or MAT 060, DRE 097 or RED 080		
DFT 152 CAD II*	3	1 <sup>st</sup> year - spring	Pre: DFT 151		
DFT 115 Architectural Drawing	2	1 <sup>st</sup> year – spring	Pre: DFT 151		
DFT 153 CAD III*	3	2 <sup>nd</sup> 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 <sup>st</sup> year - fall	None		
MAT 171 Precalculus Algebra	4	1 <sup>st</sup> year - fall	Pre: DMA 010-080 or MAT 080		
MEC 161 Manufacturing Processes I*	3	1 <sup>st</sup> year - fall	None		
ENG 111 Writing and Inquiry	3	1 <sup>st</sup> year - fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
ISC 132 Manufacturing Quality Control	3	2 <sup>nd</sup> year – fall	None		
MAT 172 Precalculus Trigonometry	4	1 <sup>st</sup> year - spring	Pre: MAT 171		
PHY 151 College Physics I	4	2 <sup>nd</sup> year – fall	Pre: DRE 098 or RED 090, MAT 171		
MEC 180 Engineering Materials	3	2 <sup>nd</sup> 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 <sup>st</sup> year - spring	Pre: ENG 111		
MAT 271 Calculus I	4	2 <sup>nd</sup> year - fall	Pre: MAT 172		
EGR 250 Statics/Strength of Materials*	5	2 <sup>nd</sup> year - fall	Pre: MAT 172		
PLA 120 Injection Molding	3	2 <sup>nd</sup> year - fall	Pre: DMA 010-030 or MAT 060, DRE 097 or RED 080		
HYD 110 Hydraulics/Pneumatics I	3	2 <sup>nd</sup> year – spring	Pre: DMA 010-030 or MAT 060		
MEC 110 Introduction to CAD/CAM	2	2 <sup>nd</sup> year – spring	Pre: DMA 010-060 or MAT 070, DRE 097 Co: DRE 098		
MEC 270 Machine Design	4	2 <sup>nd</sup> year – spring	Pre: DFT 151, EGR 250, MEC 180		
MEC 271 Machine Design Project	1	2 <sup>nd</sup> 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.)**

<b>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).</b>			
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 <sup>st</sup> year - spring		

<b>Social/Behavioral Sciences Electives (3 credits)** (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.)</b>			
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 <sup>nd</sup> year - spring		

**NOTES:** \*All courses must be completed with 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 complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

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: \_\_\_\_\_

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Student Name: \_\_\_\_\_ Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Advisor Name: \_\_\_\_\_ Advisor Signature: \_\_\_\_\_ Date: \_\_\_\_\_