



Program Completion Guide  
**ASSOCIATE IN APPLIED SCIENCE - MECHANICAL ENGINEERING TECHNOLOGY (A40320)**  
**Mechanical Engineering Technician**

Student Name: \_\_\_\_\_ ID #: \_\_\_\_\_ Date of Enrollment: \_\_\_\_\_

Advisor Name: \_\_\_\_\_ Contact Information: \_\_\_\_\_

**Note: Developmental coursework may be required. Please refer to the Developmental Education Guide for additional information.**

**A. Mechanical Engineering Technology/Computer-Aided Drafting Certificate (C40320) Course Requirements 16-17 credit hours: Complete Section A.**

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
DFT 151 CAD I*	3	1 <sup>st</sup> year - fall	Pre: MAT 003 or BSP 4003, ENG 002 or BSP 4002 or ENG 111		
MEC 130 Mechanisms	3	1 <sup>st</sup> year - fall	Pre: MAT 003 or BSP 4003		
DFT 152 CAD II*	3	1 <sup>st</sup> year - spring	Pre: DFT 151		
ELC 112 DC/AC Electricity or ELC 131 Circuit Analysis I	5	1 <sup>st</sup> year - spring	Pre: MAT 003 or BSP 4003		
	4		Pre: MAT 003 Tier 2 or BSP 4003 Tier 2		
DFT 153 CAD III*	3	2 <sup>nd</sup> year – fall	Pre: DFT 151		

**B. Mechanical Engineering Technology Diploma (D40320) Course Requirements 44-45 credit hours: Complete Sections 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		
ENG 111 Writing and Inquiry	3	1 <sup>st</sup> year - fall	Pre: ENG 002 or BSP 4002 Co: ACA 122, ENG 011		
MAT 171 Precalculus Algebra	4	1 <sup>st</sup> year - fall	Pre: MAT 003 Tier 3 or BSP 4003 Tier 3 Co: MAT 071 with MAT 003 Tier 2		
MEC 161 Manufacturing Processes I*	3	1 <sup>st</sup> year - fall	None		
MAT 172 Precalculus Trigonometry	4	1 <sup>st</sup> year - spring	Pre: MAT 171 with a grade of "C" or better.		
MEC 180 Engineering Materials	3	1 <sup>st</sup> year - spring	None		
ISC 132 Manufacturing Quality Control	3	2 <sup>nd</sup> year – fall	None		
PHY 131 Physics-Mechanics or PHY 151 College Physics I	4	2 <sup>nd</sup> year – fall	Pre: MAT 121 or MAT 171		
			Pre: MAT 171 or MAT 271, ENG 002 or BSP 4002 or ENG 111		

**C. Mechanical Engineering Technology Associate in Applied Science Degree Course Requirements 66-68 credit hours: Complete Sections A, B, and C.**

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade



ENG 112 Writing/Research in the Disciplines or COM 231 Public Speaking	3	1 <sup>st</sup> year - spring	Pre: ENG 111 Pre: ENG 002 or BSP 4002 or ENG 111		
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: MAT 003 or BSP 4003, ENG 002 or BSP 4002 or ENG 111		
HYD 110 Hydraulics/Pneumatics I	3	2 <sup>nd</sup> year – spring	Pre: MAT 003 or BSP 4003		
MEC 270 Machine Design	4	2 <sup>nd</sup> year – spring	Pre: DFT 151, EGR 250,		
MEC 271 Machine Design Project  or WBL 111 Work-Based Learning I  and WBL 115 Work-Based Learning Seminar I	1  1  1	2 <sup>nd</sup> year – spring	Pre: DFT 151, EGR 250, MEC 180 Co: MEC 270  Pre: 9 or 14 SHC in the Major Core courses depending on Program. Co: WBL 115  Pre: 9 or 14 SHC in the Major Core courses depending on Program. Co: WBL 111		

**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 credit hours)\*\* (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

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

**Social/Behavioral Sciences Electives (3 credit 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 <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: \_\_\_\_\_

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



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

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

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