

ENGINEERING TECHNOLOGY: Mechanical Engineering Technology Specialization

Associate of Applied Science

AN

Purpose: This curriculum is designed to prepare the student for employment as a mechanical engineering technician or for transfer to a four-year college to seek a bachelor's degree. Students who intend to transfer to a four-year degree program must see a faculty advisor prior to selecting courses. Occupational objectives include mechanical draftsman, engineering technician, research and development technician, engineering equipment inspector, engineering plant operator or estimator.

Two Years**Credits****1st Semester**

CSC	110 Introduction to Computing or ETR 106 Basic Prog. Applied to Electrical/Electronic Calculations	2-3
¹ EGR	115 Engineering Graphics	2
ENG	111 College Composition I	3
² MTH	166 Precalculus with Trigonometry	5
³ PED	116 Lifetime Fitness & Wellness	1
SDV	Elective	<u>1</u>
	Total	14-15

2nd Semester

DRF	152 Engineering Drawing Fundamentals II	3
DRF	201 Computer Aided Drafting & Design I	4
MEC	112 Processes of Industry	3
MEC	118 Automated Manufacturing Tech.	3
³ PED/RPK		1
⁴ —	Social Science Elective	<u>3</u>
	Total	17

3rd Semester

DRF	202 Computer Aided Drafting & Design II	4
EGR	130 Statics & Strength of Materials	5
MEC	265 Fluid Mechanics	3
PHY	201 General College Physics I	4
⁵ HIS	101 History of Western Civilization I	<u>3</u>
	Total	19

4th Semester

⁶ CIV	210 Structural Systems or Technical Elective	4-5
DRF	203 Computer Aided Drafting & Design III	3
MEC	210 Machine Design	3
PHY	202 General College Physics II	4
⁷ SPD	Elective	<u>3</u>
	Total	17-18

Total credits for A.A.S. Degree in Engineering Technology with a Specialization in Mechanical Engineering Technology = 67-69.

¹ DRF 151 may be substituted for EGR 115.

² MTH 163-164, 6 cr., may be substituted for MTH 166.

³ The PED requirement may be met by one of the following options: PED 116, 2 cr.; PED 116, 1 cr. plus a PED activities course, 1 cr.; or PED 116, 1 cr. plus RPK activities course. PED 116 is offered as both a 1-credit and a 2-credit course.

⁴ The social science elective may be selected from the economics, geography, history, political science, psychology,

or sociology (includes anthropology) courses listed on page 54. Students planning to transfer should consider taking HIS 101-102 or HIS 111-112.

⁵ Or select HIS 102, 111-112, 255, or 256 with approval of faculty advisor.

⁶ CIV courses are offered only on the Alexandria Campus. Technical electives may be selected from ARC, CIV, DRF, or ETR prefixes.

⁷ The SPD elective may be selected from the following: SPD 100, 110, 115, 126, 227 or 229.

p. 2, A.A.S. Degree in Engineering Technology with a Specialization in Mechanical Engineering Technology