

MODEL ROUTE								
School:	School of Engineering Technology & Applied Sciences - AMAT	Program Number:	3722					
Program Title:	Aerospace Manufacturing Engineering - Technology	Credential:	☐ Certificate ☐ Diploma ☐ Degree	☐ Graduate Certificate ☒ Advanced Diploma				
Delivery Mode:	☒ Non Co-Op ☐ Co-Op ☐ Fast Track	Duration:	☐ 2 Semesters ☐ 4 Semesters	☐ 3 Semesters ☒ 6 Semesters				
Intake:	Fall 2024 & Winter 2025							
Course Code	Course Title	Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	Semesters	Weeks (14)	Total Hours
Semester 1		Fall 2024 & Winter 2025						
AMET-111	Aerospace Fundamentals		2	1	3	14	42	
AMET-112	CAM/CNC 1		2	0	2	14	28	
AMET-113	Aerospace CAD 1		3	0	3	14	42	
AMET-115	Electric Circuits & Systems		2	2	4	14	56	
AMET-411	Student Support and Success		0	1	1	14	14	
COMM-160/161	College Communications 1		0	3	3	14	42	
GNED	General Education Elective		0	3	3	14	42	
MATH-170	Technology Math 2		0	3	3	14	42	
T total							308	
Semester 2		Winter 2025 & Summer 2025						
AMET-114	Machine Shop		2	0	2	14	28	
AMET-121	Electronics & Digital Systems	AMET-115	2	2	4	14	56	
AMET-122	CAM/CNC 2	AMET-112	3	0	3	14	42	
AMET-123	Aerospace CAD 2	AMET-113	3	0	3	14	42	
AMET-124 ♦	Material Properties & Manufacturing Processes		1	2	3	14	42	
AMET-125 ♦	Aerospace Engineering	AMET-111 & (MATH-170 or MATH-140)	0	4	4	14	56	
COMM-170/171	College Communications 2	COMM-160/161	0	3	3	14	42	
MATH-180	Technology Math 3	MATH-170		3	3	14	42	
T total							350	
Semester 3		Fall 2025						
AMET-211	Quality Concepts 1	MATH-140 or MATH-170	0	2	2	14	28	
AMET-212	CAM/CNC 3	AMET-112	3	0	3	14	42	
AMET-213	Aerospace CAD 3	AMET-123	3	0	3	14	42	
AMET-214	Aerospace Hydraulics & Pneumatics	AMET-411	2	2	4	14	56	
AMET-215	Aerospace Composites	AMET-124	3	1	4	14	56	
AMET-216	UAV	AMET-121	2	2	4	14	56	
AMEG-212 ♦	Ethics in Technology and the Environment		0	2	2	14	28	
GNED-500	Global Citizenship: From Social Analysis to Social Action		0	3	3	14	42	
T total							350	
Semester 4		Winter 2026						
AMET-221	Avionics	AMET-121	2	2	4	14	56	
AMET-222	CAM/CNC 4	AMET-212	3	0	3	14	42	
AMET-223	GDT Applications & Tool Design	AMET-213	3	0	3	14	42	

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Course Code	Course Title	Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	Semesters	Weeks (14)	Total Hours
AMET-224	Quality Concepts 2	AMET-211 & (MATH 170 or MATH-180)	2	2	4		14	56
AMET-226	Fabrication & Assembly	AMET-114	3	1	4		14	56
GNED	General Education Elective		0	3	3		14	42
MATH-285	Calculus	MATH-180	0	4	4		14	56
T total								350
Semester 5	Fall 2026							
AMET-311	Machine Design for Aerospace	AMET-125 & MATH-285	0	4	4		14	56
AMET-313	Manufacturing Process Design & Management	AMET-213	4	0	4		14	56
AMET-314	UAV Project	AMET-216	4	0	4		14	56
AMET-315	Project Management & PLM	AMET-224 & AMET-213	4	0	4		14	56
AMET-316	Automation & Integration	AMET-121 & MATH-285	2	2	4		14	56
AMET-324	FEA Applications for Aerospace	MATH-285	4	0	4		14	56
T total								336
Semester 6	Winter 2027							
AMET-312	Thermodynamics & Heat Transfer	AMET-125 & MATH-285	2	2	4		14	56
AMET-321	Advanced Manufacturing	AMET-313	2	2	4		14	56
AMET-322	Aerospace Management and Operations	AMET-315	2	2	4		14	56
AMET-325	Advanced Aerospace Project	AMET-311 & AMET-313	4	0	4		14	56
AMET-326	Aerospace Systems	AMET-312	2	2	4		14	56
E N GL- 250	Report Writing in a Technical Environment	COMM-170/171	0	2	2		14	28
T total								308
Total Program Hours:								2002
Notes:								
Minimum Program GPA of 2.00 is required for graduation								
◆ This course may be offered in one of the following modalities: Online, Hybrid, or Blended								
(C) = Co-requisite; (P) = Pre-requisite								
Signature:	Donald Wang		April 2, 2024					
	AMAT Chair		Revised Date					