

MODEL ROUTE

School:	School of Engineering Technology & Applied Sciences - AMAT	Program Number:	3722				
Program Title:	Aerospace Manufacturing Engineering Technology	Credential:	<input type="checkbox"/> Certificate	<input type="checkbox"/> Graduate Certificate			
			<input type="checkbox"/> Diploma	<input checked="" type="checkbox"/> Advanced Diploma			
			<input type="checkbox"/> Degree				
Delivery Mode:	<input checked="" type="checkbox"/> Non Co-Op <input type="checkbox"/> Co-Op <input type="checkbox"/> Fast Track	Duration:	<input type="checkbox"/> 2 Semesters	<input type="checkbox"/> 3 Semesters			
			<input type="checkbox"/> 4 Semesters	<input checked="" type="checkbox"/> 6 Semesters			
			<input type="checkbox"/> 8 Semesters	<input type="checkbox"/> 9 Semesters			
Intake:	Fall 2024 & Winter 2025						
Course Code	Course Title	Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	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
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	0	3	3	14	42
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
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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Delivery Mode:	<input checked="" type="checkbox"/> Non Co-Op <input type="checkbox"/> Co-Op <input type="checkbox"/> Fast Track	Duration:	<input type="checkbox"/> 2 Semesters <input type="checkbox"/> 4 Semesters <input type="checkbox"/> 8 Semesters	<input type="checkbox"/> 3 Semesters <input checked="" type="checkbox"/> 6 Semesters <input type="checkbox"/> 9 Semesters

Intake: **Fall 2024 & Winter 2025**

Course Code	Course Title	Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	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
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
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
ENGL-250	Report Writing in a Technical Environment	COMM-170/171	0	2	2	14	28
Total							308
Total Program Hours:							1736

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:	<i>Donald Wang</i>		April 2, 2024	
	AMAT Chair		Revised Date	