

B.S. in Aviation Maintenance Science

Suggested Plan of Study

Year One

		Credits
COM 122	English Composition	3
COM 219	Speech	3
CS 120	Introduction to Computing in Aviation	3
CS 223	Scientific Programming in C	3
CS 225	Computer Science II	4
CYB 155	Foundations of Information Security	3
MA 111	Pre-Calculus for Aviation	3
PSY 101	Introduction to Psychology	3
	Lower-Level Humanities Elective	3
Credits Subtotal		28.0
Credits Total:		28.0

Year Two

		Credits
AMS 115	Aviation Mathematics and Physics	2
AMS 116	Fundamentals of Electricity	4
AMS 117	Tools, Materials and Processes	4
AMS 118	Aircraft Familiarization and Regulations	2
AMS 262	Aircraft Composite Structures	3
AMS 263	General Aviation Aircraft Systems	3
AMS 264	General Aviation Aircraft Electrical and Instrument Systems	3
CS 303	Cryptography and Network Security	3
MA 112	Applied Calculus for Aviation	3
	HU/SS Lower or Upper Level Elective	3
Credits Subtotal		30.0
Credits Total:		30.0

Year Three

		Credits
COM 221	Technical Report Writing	3
AMS 261	Aircraft Metallic Structures	3
AMS 365	Transport Category Aircraft Systems	3
AMS 366	Transport Category Aircraft Electrical and Instrument Systems	3
AMS 273	Propeller Systems	2
CS 344	C Programming and UNIX	3
AMS 271	Aircraft Reciprocating Powerplant and Systems	3
AMS 272	Powerplant Electrical and Instrument Systems	3
	HU/SS Upper Level Elective	3
	Physics and Life Science Lower Level Elective *	3
Credits Subtotal		29.0
Credits Total:		29.0

Summer Session

		Credits
AMS 274	Aircraft Turbines Powerplants and Systems	4
AMS 375	Repair Station Operations	3

AMS 376	Powerplant Line Maintenance	3
Credits Subtotal		10.0
Credits Total:		10.0

Year Four

		Credits
AMS 380	Radio Communication Theory & Application	2
AMS 384	General Aviation Avionics Systems Integration	4
AMS 388	Air Transport Avionics Systems Line Maintenance	6
AMSA 490	Aviation Technical Operations	3
CS 427	System Exploitation and Penetration Testing	3
CYB 474	Issues in Aviation Cybersecurity	3
	Physics and Life Science Lower Level Elective *	3
	Open Electives	6
Credits Subtotal		30.0
Credits Total:		30.0

* Only one PS lab (1 credit) is required for graduation.