

**Bachelor of Science in Space Sciences Model Study Plan (2026-2027 Cohort onwards)**  
**For Students Admitted to the University from the Fall Semester**  
**Total Degree Credit hours: 120**

Semester	Course Code	Course Title	Cr	Course Type	Semester	Course Code	Course Title	Cr	Course Type
Year 1 (Fall)	PHYS105	General Physics I	3	Specialization	Year 1 (Spring)	PHYS110	General Physics II	3	Specialization
	PHYS105L	General Physics Lab I	1	Specialization		PHYS110L	General Physics Lab II	1	Specialization
	MATH105	Calculus I	3	Specialization		MATH110	Calculus II	3	Support Course
	CHM101L	General Chemistry I	3	Specialization		PHYS105	General Physics	3	Specialization
	CSBP109	Algorithms and Problem Solving	3	Specialization		MATH105	Linear Algebra I	3	Specialization
ENGL101	Academic English for International and STEM	3	Gen. Ed. Theme 1: Academic Language Proficiency	ENGL101	Introduction to Academic Communication	3	Gen. Ed. Theme 1: Introduction		
Year 2 (Fall)	PHYS205	Intermediate Physics Lab I	1	Specialization	Year 2 (Spring)	PHYS212	Programming for Space Science	3	Specialization
	PHYS205L	Micro and Nano	1	Specialization		PHYS210	Control Systems	3	Specialization
	PHYS205	Introduction to Astronomy & Space Science	3	Specialization		STAT210	Probability and Statistics	3	Specialization
	PHYS205	Mathematical Physics	3	Specialization		PHYS205	Modern Optics	3	Specialization
	MATH225	Ordinary Differential Equations	3	Specialization		ENRE222	Fundamentals of Innovation and Entrepreneurship	3	Gen. Ed. Theme 4: Entrepreneurship
ENGL210	Contemporary Issues Studies	3	Gen. Ed. Theme 3: UAE National Identity	ENGL211	Sustainability	3	Gen. Ed. Theme 3: Sustainability		
Year 3 (Fall)	PHYS301	Space Missions	3	Specialization	Year 3 (Spring)	ENGL301	English for Science	3	Support Course
	PHYS305	Electromagnetic Theory	3	Specialization		PHYS302	Space Science Instrumentation	3	Specialization
	Elective	Student choice	3	Major Elective		PHYS370	Space & Atmospheric Physics	3	Specialization
	Elective	Student choice	3	Major Elective		Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11		MATH372	Partial Differential Equations	3	Specialization
Year 4 (Fall)	Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11	Year 4 (Spring)	PHYS502	Internship	3	Internship
	PHYS400	Planetary Science & Exploration	3	Specialization		PHYS404	Research Project	3	Specialization
	CSBP478	Artificial Intelligence and Machine Learning for Space Sciences	3	Specialization					
	CSBP478	Artificial Intelligence and Machine Learning for Space Sciences	3	Specialization					
	Elective	Student choice	3	Major Elective					