

## Earth and Space Exploration (Astrophysics) BS Course Prerequisites

Course	Course Name	Hrs	When	Prerequisites
SES 121	Earth, Solar Sys & Univ I	3	F	
SES 123	Earth, Solar Sys & Univ I-Lab	1	F	Pre-/co-req: SES 121 with C or better if completed
SES 126	Earth, Solar Sys & Univ II	3	S	SES 121 with C or better; Pre-/coreq: MAT 170, 171, 210, 251, 265, or 270 with C or better if completed
SES 128	Earth, Solar Sys & Univ II-Lab	1	S	SES 123 with C or better; Pre-/coreq: SES 126 with C or better if completed
SES 230	Coding for Exploration	3	F	AST 111 or GLG 101 or SES 121 with C or better; Pre-/coreq: MAT 265 or 270 with C or better if completed
AST 321	Intro Planet. & Stellar Astro	3	F	AST 301 with C or better OR MAT 266 or 271 with C or better; PHY 121 and 122 (or PHY 150) with C or better
AST 322	Intro Galactic & Extragalactic Astro	3	S	AST 301 with C or better OR MAT 266 or 271 with C or better; PHY 121 and 122 (or PHY 150) with C or better
AST 421	Astrophysics I	3	S	AST 321 or 322 with C or better; PHY 252 with C or better
AST 422	Astrophysics II	3	F	AST 321 or 322 with C or better; PHY 252 with C or better
AST 498	Astrophysics Seminar	1	F/S	
PHY 314	Quantum Physics I	3	F/S	PHY 201 with C or better; PHY 252 with C or better, or both PHY 202 and 241 with C or better
SES 410	Senior Exploration Project I	3	F	Earth and Space BS major; ENG 101, 105 or 107; minimum senior standing
SES 411	Senior Exploration Project II	3	S	ENG101, ENG105 or ENG107; SES410
SES elective	AST/GLG/MAT/PHY/SES elective	3	F, S	Must be upper division (300-499 level). Various options.
MAT 270*	Calculus with Analytic Geometry I	3	F,S,SS	MAT 170 or 171 with C or better or ALEKS score of 76 or higher; Credit is allowed for only MAT 265 or MAT 270
MAT 271*	Calculus with Analytic Geometry II	3	F,S,SS	MAT 265 or 270 with C or better; Credit is allowed for only MAT266 or 271
MAT 272*	Calculus with Analytic Geometry III	3	F,S,SS	MAT 266 or 271 with C or better; Credit is allowed for only MAT267 or 272
MAT 275	Modern Differential Equations	3	F,S,SS	MAT 266 or 271 with C or better; Credit is allowed for only MAT274 or 275
PHY 150**	University Physics I	3	F,S	MAT 265 or 270 with C or better; Pre-/coreq: MAT 266 or 271 with C or better if completed
PHY 151**	University Physics II	3	F,S	MAT 266 or 271 with C or better; PHY 150 or PHY 121 and PHY 122 with C or better; Pre-/coreq: MAT 267 or 272 with C or better if completed
PHY 201	Mathematical Methods in Physics I	3	F,S	MAT 267 or MAT 272 (C or better); PHY 151 or PHY 131 & PHY 132 (C or better)
PHY 252	Physics III	4	F,S	MAT 267 or MAT 272 (C or better); PHY 151 or PHY 131 & PHY 132 (C or better)

Codes for offering: F = fall, S =spring, SS =summer session

A semicolon (;) equals "AND"

\*MAT 265/266/267 can be substituted for MAT 270/271/272

\*\*PHY 121/122 and PHY 131/132 may be substituted for PHY 150 and PHY 151

Special note: This handout is intended as a helpful tool for scheduling/planning. Students and advisors should consult the course catalog for official course information as pre-requisites and course offerings are constantly evolving.