

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

Course	Course Name	Hrs	When	Prerequisites
SES121	Earth, Solar Sys & Univ I	3	F	
SES123	Earth, Solar Sys & Univ I-Lab	1	F	Pre/co-req: SES121 with C or better if completed
SES126	Earth, Solar Sys & Univ II	3	S	Prerequisite(s): Mathematics Placement Test with a score of 50% or higher, or ALEKS score of 61 or higher; SES121 with C or better; Pre- or corequisite(s): MAT170, 171, 210, 251, 265, or 270 with C or better if completed
SES128	Earth, Solar Sys & Univ II-Lab	1	S	Prerequisite(s): SES123 with C or better; Pre- or corequisite(s): SES126 with C or better if completed
SES130	Coding for Exploration	3	F	Pre-req: SES121 with C or better; AND Pre-/co-req: MAT265 or 270 with C or better if completed
AST321	Intro Planet. & Stellar Astro	3	F	MAT266 or MAT271 with C or better AND PHY122/122 or PHY150 with C or better
AST322	Intro Galactic & Extragalactic Astro	3	S	MAT266 or MAT271 with C or better AND PHY122/122 or PHY150 with C or better
AST421	Astrophysics I	3	S	PHY252 C or better AND AST321 or AST322 C or better
AST422	Astrophysics II	3	F	PHY252 C or better AND AST321 or AST322 C or better
AST498	Astrophysics Seminar	1	F/S	
PHY314	Quantum Physics I	3	F	PHY201 with C or better; PHY252 with C or better
SES410	Senior Exploration Project I	3	F	ENG101, ENG105 or ENG107; Senior standing
SES411	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.
MAT270*	Calculus with Analytic Geometry I	3	F,S,SS	MAT 170 with C or better OR Mathematics Placement Test with a score of 60% or higher and the Advanced Mathematics Placement test with a score of 38 or higher (or ALEKS score of 67% or higher). Credit allowed for MAT265 or MAT270
MAT271*	Calculus with Analytic Geometry II	3	F,S,SS	MAT265 or 270 with C or better; Credit is allowed for only MAT266 or 271
MAT272*	Calculus with Analytic Geometry III	3	F,S,SS	MAT266 or 271 with C or better; Credit is allowed for only MAT267 or 272
MAT275	Modern Differential Equations	3	F,S,SS	MAT266 or MAT271 with a C or better; Credit is allowed for only MAT274 or 275
PHY150**	University Physics I	3	F,S	MAT265 or 270 with C or better; Pre or Co-req: MAT266 or 271 with C or better if completed
PHY151**	University Physics II	3	F,S	MAT266/MAT271 AND PHY 121; Co-req: MAT267 or MAT272 (C or better if completed)
PHY201	Mathematical Methods in Physics I	3	F,S	MAT272 or MAT267 (C or better); PHY151 (or PHY131 & PHY132) C or better
PHY252	Physics III	4	F,S	MAT272 or MAT267 (C or better); PHY151 (or PHY131 & PHY132) C or better

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

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\*MAT265/266/267 can be substituted for MAT270/271/272

\*\*PHY121/122 and PHY131/132 may be substituted for PHY150 and PHY151

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