

## Earth and Space Exploration concentration in Astrophysics course information

Course	Course Name	Hrs	When	Prerequisites
SES100	Introduction to Exploration	3	F	Pre / co-req MAT170 or higher or MPT score of 50% or higher
SES121	Earth, Solar Sys & Univ I	3	F	Pre / co-req MAT170 or higher or MPT score of 50% or higher
SES123	Earth, Solar Sys & Univ I-Lab	1	F	Pre / co-req MAT170 or higher or MPT score of 50% or higher AND SES121 (C or better if completed)
SES122	Earth, Solar Sys & Univ II	3	S	Pre-req: SES121 (C or better)
SES124	Earth, Solar Sys & Univ II-Lab	1	S	Pre/co-req SES122 (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	PHY 201 with C or better; PHY 252 with C or better
GLG400	SESE Colloquium	1	F/S	
SES410	Senior Exploration Project I	3	F	ENG 101, ENG 105 or ENG 107; Senior standing
SES411	Senior Exploration Project II	3	S	SES410
SES elective	Various options	3		(must be upper division)
MAT265/270	Calculus 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 MAT 265 or MAT 270
MAT266/271	Calculus II	3	F,S,SS	MAT 265 or 270 with C or better; Credit is allowed for only MAT 266 or 271
MAT267/272	Calculus III	3	F,S,SS	MAT 266 or 271 with C or better; Credit is allowed for only MAT 267 or 272
MAT275	Modern Differential Equations	3	F,S,SS	MAT266 or MAT271 with a C or better; Credit is allowed for only MAT 274 or 275
PHY121**	University Physics I: Mechanics	3	F,S,SS	MAT265/MAT270; Pre or Co-req: MAT 266/MAT 271; (all w/C or better)
PHY122**	University Physics Laboratory I	1	F,S,SS	Pre- or Co-requisite: PHY 121 (with C or better if completed)
PHY131**	University Physics II: Elec.& Mag.	3	F,S,SS	MAT266/MAT271 AND PHY 121; Co-req: MAT267 or MAT272 (C or better if completed)
PHY132**	University Physics Laboratory II	1	S,SS	Pre or Co-req: PHY131 (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

\*In 2011 and earlier catalog years, students may have taken PHY241 instead of PHY252. These students may need to take PHY361 (Modern Intro Physics) instead of PHY314 because PHY252, not PHY241, is a pre-req for PHY314. Otherwise, students can ask the physics dept for an override into PHY314.

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

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.

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

Last updated November 14, 2013 Becca Dial