

Earth and Planetary Sciences Graduate Prerequisites
<u>Prerequisites (4):</u> (2) Complete equivalent of Dartmouth courses: MATH 3 and MATH 8 (2) Complete equivalent (or higher) of any (2) of the following course sequences: - CHEM 5 and CHEM 6 - PHYS 3 and PHYS 4 (or PHYS 13 and PHYS 14) - Any two among BIOL 11 through BIOL 16

Master of Science (MS) in Earth and Planetary Sciences (6 courses)
<u>Prerequisites:</u> As above
<u>Course Requirements (6):</u> (6) EAPS graduate courses at the discretion of the thesis committee, including: - EAPS 201, 202, and 203 (3) - EAPS 117 (1) or the equivalent of two university-level statistics courses, one of which can be AP Statistics with a passing score of 4 or 5 - Any (2) additional graduate-level courses; at most (1) may be a seminar course (EAPS 270+) - EAPS 181-183, 185, and 189 do not satisfy these course requirements
<u>Additional Requirements:</u> - Must include at least (3) terms of residence - Must TA at least (1) course/year - Complete a thesis of professional quality and successfully defend before department

Doctor of Philosophy (PhD) in Earth and Planetary Sciences (9 courses)
<u>Prerequisites:</u> As above
<u>Course Requirements (6):</u> (9) EAPS graduate courses at the discretion of the thesis committee, including: - EAPS 201, 202, and 203 (3) - EAPS 107 (1) - EAPS 117 (1) or the equivalent of two university-level statistics courses, one of which can be AP Statistics with a passing score of 4 or 5 - Any (1) upper-level science or engineering course outside the department - Any (3) additional graduate-level courses; at most (2) may be seminar courses (EAPS 270+) - EAPS 181-183, 185, and 189 do not satisfy these course requirements
<u>Additional Requirements:</u> - Must include at least (3) terms of residence - Must TA at least (1) course/year - Present and defend a summer research project to the department and a closed-door general qualifying exam to the committee - Present and defend a thesis proposal defense before the committee - Complete a thesis of professional quality and successfully defend before department

Graduate Courses

EARS	107	EAPS	107	Mathematical Modeling of Earth Processes
EARS	117	EAPS	117	Statistics for Earth and Planetary Scientists
EARS	113	EAPS	123	Computational Methods in Earth and Planetary Sciences
EARS	35	EAPS	135	The Soil Resource
EARS	177	EAPS	137	Environmental Applications of GIS
EARS	151	EAPS	141	Mineralogy and Earth Processes
EARS	152	EAPS	142	Structural Geology and Tectonics
EARS	158	EAPS	148	Sedimentary Petrology and Stratigraphy
EARS	159	EAPS	149	Igneous and Metamorphic Petrology
EARS	170	EAPS	150	Glaciology
EARS	173	EAPS	151	Isotope Geology
EARS	174	EAPS	154	Soils and Water Chemistry
EARS	176	EAPS	156	Watershed Hydrology
EARS	160	EAPS	160	Earth System Modeling
EARS	161.01	EAPS	161	Hydroclimatology
EARS	162	EAPS	162	Geochemistry
EARS	164	EAPS	164	Geophysics
EARS	166.01	EAPS	166	Environmental Transport and Fate
EARS	167	EAPS	167	Geomechanics
EARS	172	EAPS	172	Geobiology
EARS	165	EAPS	174	Advanced Remote Sensing
EARS	175	EAPS	175	Quaternary Paleoclimatology
EARS	36	EAPS	176	Astrobiology
EARS	178	EAPS	178	Climate Dynamics
EARS	179	EAPS	179	Special Topics
EARS	141	EAPS	181	Level 1 - Thesis Research
EARS	142	EAPS	182	Level 2 - Thesis Research
EARS	143	EAPS	183	Level 3 - Thesis Research
EARS	145	EAPS	185	Supervised Teaching in Earth and Planetary Sciences
EARS	149	EAPS	189	Supervised Teaching in Earth Sciences
EARS	201	EAPS	201	Ethics and Oral Communication in Earth and Planetary Sciences
EARS	202	EAPS	202	Computational Data Analysis in Earth and Planetary Sciences
EARS	203	EAPS	203	Scientific Writing in Earth and Planetary Sciences
EARS	270	EAPS	270	Topics in Ice and Climate
EARS	272	EAPS	272	Topics in Earth and Planetary History
EARS	276	EAPS	276	Topics in Earth Surface Processes