Program Change Request

Date Submitted: 01/12/17 12:31 pm

Viewing: SPACPH: Space and Planetary Sciences, Doctor of Philosophy

Last approved: 08/14/15 5:07 pm

Last edit: 01/12/17 12:31 pm

Changes proposed by: pkoski

In Workflow

- 1. GRAD Dean Initial
- 2. GRAD Dean Initial
- 3. Director of Program
 Assessment and
 Review
- 4. Registrar Initial
- 5. GRSD Chair
- 6. GRAD Dean
- 7. Global Campus
- 8. Provost Review
- 9. University Course and Program Committee
- 10. Graduate Committee
- 11. Faculty Senate
- 12. Provost Final
- 13. Provost's Office--Notification of Approval
- 14. Registrar Final
- 15. Catalog Editor Final

Approval Path

- 1. 01/12/17 12:33 pm pkoski: Approved for GRAD Dean Initial
- 2. 01/12/17 12:34 pm pkoski: Approved for GRAD Dean Initial
- 3. 01/13/17 9:37 am agriffin: Approved for Director of Program Assessment and Review
- 4. 01/19/17 5:41 pm lkulcza: Approved for Registrar Initial
- 5. 01/19/17 5:54 pm pkoski: Approved for GRSD Chair
- 6. 01/19/17 5:55 pm pkoski: Approved for GRAD Dean

7. 01/25/17 11:50 am kbible: Approved for Global Campus

8. 01/25/17 1:47 pm tmartin: Approved for Provost Review

History

- 1. Jun 10, 2015 by calison
- 2. Aug 14, 2015 by lkulcza

Catalog Pages Using this

Program

Space and Planetary Sciences (SPAC)

User ID: calison

Submitter:

Phone: 575-6731

Academic Level Graduate

Select a reason

for the proposed change:

Making Minor Changes to an Existing Degree (e.g. changing 15 or fewer hours, changing

admission/graduation requirements, adding Focused Study)

Program Status Active

Academic Unit

Major/Field of Study

Are you adding, changing or deleting a concentration? No

Action	Proposed Code	Proposed Name

Are you adding, changing or deleting a track? No

	Action	Proposed Code	Proposed Name
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Are you adding, changing or deleting a focused study? No

A	ction	Proposed Code	Proposed Name
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Effective Catalog Year

Fall 2017 Summer 2014

College, School,

Division

Graduate School (GRAD)

Department

Code

Department of Graduate Dean (GRSD)

Program Code SPACPH

Degree Doctor of Philosophy

CIP Code 40.0203 - Planetary Astronomy and Science.

Program Title Space and Planetary Sciences, Doctor of Philosophy

Method of Delivery

On Campus

No

Is this program interdisciplinary or use courses from another College?

Does this No

change the total hours needed to complete the program?

Program Requirements, Description and 8-Semester Plan

Requirements for the Doctor of Philosophy Degree: Students are required to take a minimum of 72 hours beyond the baccalaureate degree to include a minimum 34 hours of required course work and 18 hours of <u>SPAC 700V</u>. Course requirements are given below.

Non-Core Courses

SPAC 5111L	Space and Planetary Lab (Fa)	1
<u>SPAC 5211</u>	SPAC Proseminar (Sp)	1
SPAC 5123	Internship (Sp, Fa)	3

Core Courses

Select four of the following:

Stars and Planetary Systems (Odd years, Fa)

SPAC 5313 Planetary Atmospheres (Irregular)

SPAC 5413 Planetary Geology (Even years, Sp)

SPAC 5513 Biochemical Evolution (Odd years, Sp)

or SPAC 5553

SPAC 5553

Astrobiology (Even years, Sp)

Astrobiology (Even years, Sp)

SPAC 5613 Astronautics (Irregular)

Space and Planetary Electives

(see list below) – Must take at least three courses. Substitutions may be made with the approval of the committee. 9

Other Electives

SPAC 5161 Seminar (Sp, Fa) (must take every semester) 4

Dissertation

SPAC 700V Doctoral Dissertation (Sp, Su, Fa) 18

Total Hours 47

Space and Planetary Electives

Dlanetary Actronomy

Note: Other courses may count as electives with the approval of the student's research adviser and committee. No more than two 4000-level courses may be counted toward the Ph.D. degree.

Planetary Astronomy			
ASTR 4013/5013	Course ASTR 4013 Not Found		
<u>GEOS 4433</u>	Geophysics (Irregular)	3	
<u>CHEM 5263</u>	Nuclear Chemistry (Odd years, Fa)	3	
<u>CHEM 5273</u>	Cosmochemistry (Odd years, Sp)	3	
PHYS 5513	Atomic and Molecular Physics (Odd years, Sp)	3	
Planetary Geology			
<u>GEOS 5123</u>	Stratigraphic Principles and Practice (Irregular)	3	
<u>GEOS 5423</u>	Remote Sensing of Natural Resources (Even years, Sp)	3	
<u>GEOS 560V</u>	Graduate Special Problems (Sp, Su, Fa)	2-6	
Planetary Atmosph	eres		
<u>GEOS 4353</u>	Meteorology (Fa)	3	
<u>GEOS 4363</u>	Climatology (Sp)	3	
GEOS/ENDY 5113	Global Change (Fa)	3	
Origin and Evolutio	n of Life		
BIOL 4233	Genomics and Bioinformatics (Sp)	3	
BIOL 4263	Cell Physiology (Fa)	3	
BIOL 4353	Ecological Genetics/Genomics (Odd years, Fa)	3	
BIOL 5463	Physiological Ecology (Odd years, Sp)	3	
<u>CHEM 5813</u>	Biochemistry I (Fa)	3	
<u>CHEM 5843</u>	Biochemistry II (Sp)	3	
Astronautics and Orbital Mechanics			
CSCE 5043	Advanced Artificial Intelligence (Irregular)	3	
MEEG 4233	Microprocessors in Mechanical Engineering I: Electromechanical Systems (Irregular)	3	
MEEG 4433	Aerospace Propulsion (Irregular)	3	
MEEG 5273	Electronic Packaging (Irregular)	3	

Additional Requirements: Students are required to complete a thesis or dissertation describing original research work in the space and planetary sciences that must be presented to and successfully defended before their committee. In addition, Ph.D. students must pass a candidacy examination.

The Ph.D. candidacy examination is administered by the student's committee and is designed to test the student's ability to assimilate, integrate and interpret material learned in the core required courses:

SPAC/ASTR 5033	Stars and Planetary Systems (Odd years, Fa)	3
SPAC/GEOS 5313	Planetary Atmospheres (Irregular)	3
SPAC/GEOS 5413	Planetary Geology (Even years, Sp)	3
SPAC/CHEM/BIOL 5513	Biochemical Evolution (Odd years, Sp)	3
SPAC 5613	Astronautics (Irregular)	3

While at the same time having a depth of understanding in the area of the student's research. Thus the candidacy examination will be in two parts: (1) a 2500-word integrative essay on a theme chosen by the committee, and (2) an oral defense of the thesis before the committee. Part (1) will be assigned six weeks before the candidacy defense and shall be presented to the committee two weeks before that defense. The defense will be held at a date determined by the committee but usually before the end of the student's second year in graduate school. The committee will judge

the examination as pass/fail and in the case of failure – and at the discretion of the committee – a second attempt to pass the qualifying examination is permitted within a period of time determined by the committee.

Students should also be aware of Graduate School requirements with regard to doctoral degrees.

Are Similar Programs available in the area?	No
Estimated Student Demand for Program:	NA
Scheduled Program Review Date:	NA
Program Goals and Objectives:	NA
Learning Outcomes:	NA
Description and justification of the request:	We are proposing to remove SPAC 5111L and SPAC 5513 from the list or required courses. The SPAC faculty approved removing the SPAC LAB requirement from the MS and PhD degree requirements as it no longer fulfills the original intent. The lab was originally required in order to assist students in getting to know faculty member in the program and thus help them make a decision about a possible supervisor. We now bring students in to work with a specific faculty member. This change was unanimously approved by the faculty. The second request is to remove the SPAC 5513 course from the core options. This course is no longer offered as the faculty member who taught it is now retired. Further the pre-requisites for the course are seldom possessed by students in the SPAC program so consequently the course was repeatedly under-enrolled.
Program reviewer comments	
Uploaded	

Key: 243

attachments: