# Course Inventory Change Request

**Date Submitted:** 08/31/17 11:17 am  
**Viewing:** GEOG 711: Advanced Topics in Geovisualization

**Cartography:**

**Last edit:** 08/31/17 11:17 am  
**Changes proposed by:** koerner

<table>
<thead>
<tr>
<th>Programs referring to this course</th>
</tr>
</thead>
<tbody>
<tr>
<td>EECS-BS: Interdisciplinary Computing, B.S.</td>
</tr>
<tr>
<td>GEOG-BA/BGS: Geography, B.A./B.G.S.</td>
</tr>
<tr>
<td>GEOG-CRTU: Geographic Information Science</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Academic Career</th>
<th>Graduate, Lawrence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Code</td>
<td>GEOG</td>
</tr>
<tr>
<td>Course Number</td>
<td>711</td>
</tr>
<tr>
<td>Academic Unit</td>
<td>Department Geography</td>
</tr>
<tr>
<td></td>
<td>School/College College of Lib Arts &amp; Sciences</td>
</tr>
<tr>
<td>Do you intend to offer any portion of this course online?</td>
<td>No</td>
</tr>
<tr>
<td>Title</td>
<td>Advanced Topics in Geovisualization Advanced Cartography:______</td>
</tr>
<tr>
<td>Transcript Title</td>
<td>Adv. Topics in Geovisualization Advanced Cartography:______</td>
</tr>
<tr>
<td>Effective Term</td>
<td>Spring 2018</td>
</tr>
</tbody>
</table>

**Catalog Description:** This course is an investigation of special topics in cartography and geovisualization, cartography. It takes the fundamentals learned in GEOG 311 and 512 and expands them in several aspects such as techniques and applications of web mapping, interactive web maps, virtual environments, volunteered geographic information (VGI), and uncertainty visualization. Can be repeated for different topics.

**Prerequisites:** GEOG 311 and GEOG 512 Consent of instructor.

<table>
<thead>
<tr>
<th>Credits</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Type</td>
<td>Lecture (Regularly scheduled academic course) (LEC)</td>
</tr>
<tr>
<td>Associated Components (Optional)</td>
<td>Laboratory - Associated with a main component</td>
</tr>
<tr>
<td>Grading Basis</td>
<td>A-D(+/-)FI (G11)</td>
</tr>
<tr>
<td>Typically Offered</td>
<td>Every Three Years</td>
</tr>
<tr>
<td>Repeateble for credit?</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>How many times may this course be taken</th>
<th>99</th>
</tr>
</thead>
<tbody>
<tr>
<td>- AND/OR - For how many maximum credits</td>
<td>99</td>
</tr>
</tbody>
</table>

Can a student be enrolled in multiple sections in the same semester?

| No | Yes |

Does this course fulfill RSRS (Research Skills Responsible Scholarship)?

| No |

Will this course be required for a degree, major, minor, certificate, or concentration?

| No |

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In Workflow

1. CLAS Graduate Program and Course Coordinator  
2. CGS PCC Subcommittee  
3. CGS Committee  
4. CAC  
5. Registrar  
6. PeopleSoft

Approval Path

1. 09/08/17 11:32 am  
   Rachel Schwien (rschwien): Approved for CLAS Graduate Program and Course Coordinator  
2. 09/21/17 12:40 pm  
   Rachel Schwien (rschwien): Approved for CGS PCC Subcommittee
This is an update on the title and contents of the existing course GEOG 711. Some of the previous contents in GEOG 711 have been moved to our new course GEOG 512. As web mapping technologies continue evolving, this updated GEOG 711 offers a comprehensive overview and guide for designing aesthetic and effective web maps.
Course Inventory Change Request

Date Submitted: 08/31/17 11:24 am

Viewing: GEOG 911 : Seminar in Geovisualization Cartography: _____
Last edit: 08/31/17 11:24 am
Changes proposed by: koerner

In Workflow
1. CLAS Graduate Program and Course Coordinator
2. CGS PCC Subcommittee
3. CGS Committee
4. CAC
5. Registrar
6. PeopleSoft

Approval Path
1. 09/06/17 11:01 am
   Rachel Schwien (rswien):
   Approved for CLAS Graduate Program and Course Coordinator
2. 09/22/17 12:40 pm
   Rachel Schwien (rswien):
   Approved for CGS PCC Subcommittee

Programs referencing this course
GEOG-MA: Geography, M.A.

Academic Career: Graduate, Lawrence
Subject Code: GEOG
Academic Unit: Department: Geography, School/College: College of Lib Arts & Sciences

Do you intend to offer any portion of this course online?
No

Title: Seminar in Geovisualization Cartography: _____
Transcript Title: Seminar in Geovisualization Cartography:
Effective Term: Spring 2018

Catalog Description: Students will explore current opportunities and challenges in geovisualization. This research seminar is devoted to topics of geospatial technology, cartographic visualization and communication, the history of cartography, and new perspectives and methodologies in geovisualization. Study of selected topics in cartography. Can be repeated for different topics.

Prerequisites: GEOG 311 and GEOG 512 GEOG 543 or consent of instructor.
Cross Listed Courses:

Credits: 3
Course Type: Lecture (Regularly scheduled academic course) (LEC)
Grading Basis: A-D(+/-)FI (G11)

Typically Offered: Every Three Years Not Typically Offered
Repeatable for credit?: Yes

How many times may this course be taken: 99
- AND/OR -
For how many maximum credits: 99

Can a student be enrolled in multiple sections in the same semester?
No

Does this course fulfill RSRS (Research Skills Responsible Scholarship)?
No

Will this course be required for a degree, major, minor, certificate, or concentration?
No

Rationale for Course Proposal: This is an update on the title and contents of the existing course GEOG 911. While cartography is a fundamental component in geovisualization, current geovisualization techniques have extended traditional cartography to embrace multi-dimensional representation of data sources using animation and interactive 3D methods that may be integrated with new technologies and platforms.

Course Reviewer Comments

https://next.catalog.ku.edu/courseleaf/approve/
Course Inventory Change Request

Viewing: SPLH 874 : Master's Research Practicum

Last edit: 09/12/17 11:35 am
Changes proposed by: kgrosche

Academic Career: Graduate, Lawrence

Subject Code: SPLH
Course Number: 874

Academic Unit: Department Speech-Language-Hearing
School/College: College of Lib Arts & Sciences

Do you intend to offer any portion of this course online?
No

Title: Master's Research Practicum
Transcript Title: Master's Research Practicum
Effective Term: Spring 2018

Catalog Description:
This course is designed to give students experience in conducting research. Students apply and extend their knowledge and skills by participating in a research project under the supervision of a mentor. Application of research methodology in a laboratory situation. Students may assist with Emphasis is on direct participation in designing and conducting an experimental investigation in speech, language, or hearing. May be repeated for up to a maximum of 3 credits.

Prerequisites:
SPLH 660 or equivalent research methods course.

Cross Listed Courses:

Credits: 1-3
Course Type: Individual Research (RSH)
Grading Basis: A-D (+/-)FI (G11)

Typically Offered: Typically Every Semester
Repeatable for credit?: Yes

How many times may this course be taken: 3 - AND/OR - For how many maximum credits: 3
Can a student be enrolled in multiple sections in the same semester?
No

Does this course fulfill RSRS (Research Skills Responsible Scholarship)?
No

Will this course be required for a degree, major, minor, certificate, or concentration?
No

Rationale for Course Proposal:
Both SPLH 874 and 974 are titled Research Practicum. 874 is meant for master’s students and 974 is meant for Doctoral students; however, students are not always enrolling in the correct course. We feel clarifying in the title will help students enroll in the appropriate course. Also, the course description is not accurate and the new one better describes what we want our students to accomplish.

Course Reviewer Comments
Course Inventory Change Request

Date Submitted: 09/11/17 1:42 pm

Viewing: SPLH 998: Investigation and Conference (For Doctoral Candidates)

Last edit: 09/11/17 1:42 pm
Changes proposed by: hstorkel

<table>
<thead>
<tr>
<th>Academic Career</th>
<th>Graduate, Lawrence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Code</td>
<td>SPLH</td>
</tr>
<tr>
<td>Course Number</td>
<td>998</td>
</tr>
<tr>
<td>Academic Unit</td>
<td>Department Speech-Language-Hearing</td>
</tr>
<tr>
<td>School/College</td>
<td>College of Lib Arts &amp; Sciences</td>
</tr>
</tbody>
</table>

Do you intend to offer any portion of this course online? 
No

Title: Investigation and Conference (For Doctoral Candidates)

Transcript Title: Investigatin&Conferecn (Doctoral)

Effective Term: Spring 2018

Catalog Description: (Limited to eight hours credit towards the Ph.D. degree.) Readings, critical thinking, and scientific writing in preparation for the oral comprehensive exam. degree.) Directed research and experimentation for Ph.D. students in some phase of speech science.

Prerequisites: None

Cross Listed Courses: None

Credits: 1-8

Course Type: Individual Research (RSH)

Grading Basis: A-D (+/-)FI (G11)

Typically Offered: Typically Every Semester

Repeatability for credit: No

Will this course be required for a degree, major, minor, certificate, or concentration? 
No

Rationale for Course Proposal: The prior description did not accurately reflect the actual activities for the enrollment. Students enroll in this while they prepare for the oral comprehensive exam so that they meet enrollment requirements for full-time status.

https://next.catalog.ku.edu/courseleaf/approve/
Course Inventory Change Request

New Course Proposal

Date Submitted: 08/07/17 10:06 am


Last edit: 09/06/17 11:22 am

Changes proposed by: 1409w960

<table>
<thead>
<tr>
<th>Academic Career</th>
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</thead>
<tbody>
<tr>
<td>Subject Code</td>
<td>GIST</td>
</tr>
<tr>
<td>Academic Unit</td>
<td>Department, Global &amp; International Studies</td>
</tr>
<tr>
<td>School/College</td>
<td>College of Lib Arts &amp; Sciences</td>
</tr>
<tr>
<td>Locations</td>
<td>Lawrence</td>
</tr>
</tbody>
</table>

Describe Other Location: Leavenworth

Do you intend to offer any portion of this course online?

No

Title: Human Rights and U.S. National Security

Transcript Title: Human Rights & U.S Nat. Sec.

Effective Term: Spring 2018

Catalog Description: This course explores the history, debates, and contemporary issues related to human rights and U.S. national security policy. Through lecture, practical exercises, and class-led discussions, the course will cover relevant and timely issues such as human rights and counter-terrorism, security assistance and cooperation, peacekeeping and protection of civilians, and global criminal accountability.

Prerequisites: Graduate standing or consent of instructor

Cross Listed Courses:

Credits: 3

Course Type: Lecture (Regularly scheduled academic course) (LEC)

Grading Basis: A-D (+/-)FI (G11)

Typically Offered: Only Spring Semester

Repeatable for credit: No

Will this course be required for a degree, major, minor, certificate, or concentration?

No

Rationale for Course Proposal: This course will be an elective offered to MA students in our one-year concentration and offered primarily for KU students at Fort Leavenworth.

Course Reviewer Comments:

In Workflow

1. CLAS Graduate Program and Course Coordinator
2. CGS PCC Subcommittee
3. CGS Committee
4. CAC
5. Registrar
6. PeopleSoft

Approval Path

1. 09/06/17 11:22 am
Rachel Schwien (rschwen):
Approved for CLAS Graduate Program and Course Coordinator
2. 09/03/18 12:39 pm
Rachel Schwien (rschwen):
Approved for CGS PCC Subcommittee

https://next.catalog.ku.edu/courseleaf/approve/
# Course Inventory Change Request

## New Course Proposal

**Viewing:** PHSX 703 : Proposal Writing

**Last edit:** 09/05/17 9:43 am

Changes proposed by: tataskris

<table>
<thead>
<tr>
<th>Academic Career</th>
<th>Graduate, Lawrence</th>
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<tbody>
<tr>
<td>Subject Code</td>
<td>PHSX</td>
</tr>
<tr>
<td>Academic Unit</td>
<td>Department Physics &amp; Astronomy</td>
</tr>
<tr>
<td>Location</td>
<td>College of Lib Arts &amp; Sciences</td>
</tr>
<tr>
<td>No. of Credits</td>
<td>1</td>
</tr>
<tr>
<td>Course Type</td>
<td>Lecture (Regularly scheduled academic course) (LEC)</td>
</tr>
<tr>
<td>Grading Basis</td>
<td>A-D(+-)FIP (G09)</td>
</tr>
<tr>
<td>Typically Offered</td>
<td>Only Spring Semester</td>
</tr>
<tr>
<td>Repeatable for credit?</td>
<td>No</td>
</tr>
<tr>
<td>Catalog Description</td>
<td>Means and methods for preparing a successful proposal. This course will discuss how to find funding and other opportunities. Students will learn how to develop an effective application and will complete an application. Designed for early career graduate students and advanced undergraduate students.</td>
</tr>
<tr>
<td>Prerequisites</td>
<td>None</td>
</tr>
<tr>
<td>Cross Listed Courses:</td>
<td></td>
</tr>
<tr>
<td>Effective Term</td>
<td>Spring 2018</td>
</tr>
</tbody>
</table>

**Rationale for Course Proposal**

This course will improve our students’ chances at obtaining external graduate fellowships, e.g. from the NSF. Students will produce a submittable proposal as part of this course.

**Supporting Documents**

[Microsoft Word - example syllabus - PHSX 703.pdf](https://next.catalog.ku.edu/courseleaf/approve/)
Program Change Request

Date Submitted: 09/08/17 3:33 pm

Viewing: **PHSX-MS : Physics, M.S.**

Last approved: 11/29/16 12:04 pm

Last edit: 09/08/17 3:33 pm

Changes proposed by: tatekris

<table>
<thead>
<tr>
<th>Catalog Pages Using this Program</th>
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</thead>
<tbody>
<tr>
<td>Master of Science in Physics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Academic Career</th>
<th>Graduate, Lawrence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Type</td>
<td>Degree/Major</td>
</tr>
<tr>
<td>Department/Program</td>
<td>Physics &amp; Astronomy</td>
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<tr>
<td>School/College</td>
<td>College of Lib Arts &amp; Sciences</td>
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<tr>
<td>Degree Code</td>
<td>Master of Science - MS</td>
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</table>

Consulting School(s)/College(s)
Consulting Department(s)
CIP Code 400801
Program Name Physics, M.S.
Do you intend to offer a track(s)? 

Do you intend for this program to be offered online? No

Effective Catalog 2018 2017–2019 2018

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In Workflow

A. CLAS Graduate Program and Course Coordinator
B. CGS PCC Subcommittee
C. CGS Committee
D. CAC
E. Future Academic Catalog

Approval Path

A. 09/11/17 8:40 am
   Rachel Schwen (rschwen):
   Approved for CLAS Graduate Program and Course Coordinator
B. 09/21/17 12:41 pm
   Rachel Schwen (rschwen):
   Approved for CGS PCC Subcommittee

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History

A. Mar 11, 2016 by Kristin Rennells (tatekris)
B. Nov 29, 2016 by Kristin Rennells (tatekris)

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Program Description

**Graduate Program in Physics and Astronomy**

The department offers three primary graduate programs: (i) an M.S. degree program in Computational Physics and Astronomy, (ii) an M.S. degree in Physics, and (iii) a Ph.D. degree in Physics. The M.S. degree in Computational Physics and Astronomy requires a thesis, as does one of the M.S.-Physics options. The department does not offer a graduate-level degree in Astronomy, although students have obtained M.S. degrees in Physics by doing astronomy projects. Also, the department has added flexibility in its course offerings to allow a student to obtain a Ph.D. in Physics while working on an astronomy or astrophysics multidisciplinary plan of study.

Degree Requirements

**M.S. Degree in Physics**
Candidates must complete a minimum of 30 credit hours of advanced lecture courses (numbered 500 or above) in physics and related subjects within a period of 7 years. Credit toward the 30 required hours is not given to students who take courses at a lower level after having completed similar upper level courses (as determined by the department) with a grade of B- or higher.

Program requirements include:

A. Within 12 months of entering the program the student must fulfill the requirements of the individualized plan of study for all graduate degrees to certify an undergraduate knowledge of Physics. Visit the Department’s website for more information on these requirements and the process of certification.

B. 4 basic courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSX 711</td>
<td>Quantum Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 718</td>
<td>Mathematical Methods in Physical Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 821</td>
<td>Classical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 831</td>
<td>Electrodynamics I</td>
<td>3</td>
</tr>
</tbody>
</table>

C. 2 additional courses chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSX 721</td>
<td>Chaotic Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 731</td>
<td>Molecular Biophysics</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 741</td>
<td>Nuclear Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 761</td>
<td>Elementary Particles I</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 781</td>
<td>Solid State Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 792</td>
<td>Topics in Advanced Astrophysics</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 793</td>
<td>Physical Cosmology</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 795</td>
<td>Space Plasma Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 815</td>
<td>Computational Methods in Physical Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

D. A minimum of 2 hours in PHSX 899 Master’s Research/Thesis is required, with a maximum of 6 hours that count toward the master’s degree. No more than 3 hours will be allowed unless directed towards completion of a thesis on original research or a written report. Students must consult with the research advisor before enrolling in more than 3 credit hours.

E. The remaining 6 to 10 hours of advanced electives must be either advanced lecture courses or advanced undergraduate laboratory courses. (This proviso excludes seminars and special problems courses.)

F. All graduate students, after their first semester, will deliver at least 1 oral presentation per semester.

G. General Examination: Candidates must pass a general oral examination in physics. The examination is given shortly before completion of other work for the degree. A master’s thesis is not required but may be submitted if the candidate and the director of the candidate’s research believe it to be appropriate.

The departmental web page with some additional information, e.g., milestones, can be found at [http://www.physics.ku.edu/~physics/graduate/about.shtml](http://www.physics.ku.edu/~physics/graduate/about.shtml).

Please go to this website to see the University’s policy on time limits: [https://documents.ku.edu/policies/Graduate_Studies/maprogramtimeconstraints.htm](https://documents.ku.edu/policies/Graduate_Studies/maprogramtimeconstraints.htm)

M.S. with emphasis Subspeciality in Computational Physics and Astronomy

This degree is a subspecialty program for students with a background in physics, in physics, astronomy, computer science, mathematics, or engineering who wish to become familiar with computer-based approaches to problems in these fields. This degree is intended as a terminal MS that can be completed in two years. Minimum preparation expected includes a year’s course in general physics, mathematics through differential equations, and a knowledge of Fortran, C++, or another programming language suited to scientific applications.

Students pursuing this degree with an applied mathematics emphasis may wish to consider also earning a Graduate Certificate in Applied Mathematics.

**Degree Requirements**

A total of at least 33.0 hours of credits including 30 hours of graduate credit is required for the degree. Required. At least 50%. No more than the required 6 hours of these hours must PHSX 899 Master's Research/Thesis may be at the 700 level or above, counted toward the degree. Courses numbered 500 or above count for graduate credit. The 33 hours listed below under 2 and 3 may include certain undergraduate level electrical engineering and computer science courses. Some of the (Only) courses listed below are undergraduate level EECS courses that do not numbered 500 and above count as graduate credit. Students entering the program may have satisfied several of these requirements, but a total of 30 hours of graduate credit is still required. Students entering the program may have satisfied several of these requirements but a total of 30 hours of graduate credit is still required. No more than the required 6 hours of PHSX 899 (Master's Research/Thesis) may be counted toward the degree.

A. No more than the required 6 hours of PHSX 899 Master's Research/Thesis may be counted toward the degree. Degree requirements include:

Within 12 months of entering the program the student must fulfill the requirements of the individualized plan of study for all graduate degrees to certify an undergraduate knowledge of Physics. Visit the Department’s website for more information on these requirements and the process of certification.

B. Required Courses (24-28 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSX/ASTR 815</td>
<td>Computational Methods in Physical Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 718</td>
<td>Mathematical Methods in Physical Sciences</td>
<td>3</td>
</tr>
<tr>
<td>MATH/EECS 781</td>
<td>Numerical Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>or EECS 639</td>
<td>Introduction to Scientific Computing</td>
<td>3</td>
</tr>
</tbody>
</table>

EECS – 1 course at the 300 level or above (in addition to EECS 781) (Note: courses below the 500 level will not count towards the required 30 hours of graduate credit.)

1 additional PHSX/ASTR/ATMO lecture course at the 500 level or above

EECS – 1 course at the 300 level or above (in addition to MATH/EECS 781) (Note: courses below the 500 level will not count towards the required 30 hours of graduate credit.)

EECS or MATH - 1 course at the 700 level or above in EECS or MATH (In addition to MATH/EECS 781 and the EECS 300+ requirement) 3

1 additional PHSX/ASTR lecture course at the 500 level or above

https://next.catalog.ku.edu/courseaf/af/
C. 94 or more credits from at least 3 lecture or lab courses from the following list of courses:

Note: Double counting of courses is not allowed, e.g. a course used to fulfill a requirement under part 2. (e.g. EECS 448) may not also be counted under part 3.

- EECS 360      Signal and System Analysis 1  4
- EECS 368      Programming Language Paradigms 1  3
- EECS 388      Embedded Systems 1  4
- EECS 448      Software Engineering I  4
- EECS 560      Data Structures  4
- EECS 672      Introduction to Computer Graphics  3
- EECS 731      Introduction to Data Science  3
- EECS 738      Machine Learning  3
- EECS 739      Parallel Scientific Computing  3
- EECS 837      Data Mining  3
- MATH 611      Time Series Analysis  3
- MATH 627      Probability  3
- MATH 647      Applied Partial Differential Equations  3
- MATH 650      Nonlinear Dynamical Systems (cannot be counted along with PHSX 721)  3
- MATH 727      Probability Theory  3
- or MATH 627  Probability  3
- MATH 726      Statistical Theory  3
- or MATH 626  Mathematical Theory of Statistics  3
- MATH/EECS 782  Numerical Analysis II  3
- MATH 783  Applied Numerical Methods for Partial Differential Equations  3

PHSX/ASTR/ATMO Courses Numbered 500 and above

Courses below the 500 level do not count towards the required 30 hours of graduate credit.

PHSX/ASTR Courses Numbered 500 and above

- MATH 506  Special Topics: ______
- MATH 606  Special Topics: ______
- MATH 706  Special Topics: ______

Footnote 1: Courses below the 500 level do not count towards the required 30 hours of graduate credit.

D. All graduate students, after their first semester, will deliver at least 1 oral presentation per semester.

E. Thesis: An important component of this degree is the completion and documentation of a successful computer project. A thesis must be presented that describes the basic physics involved in the project, the method of implementing the project, and a discussion of the results. An oral defense of the thesis is required before a committee of at least 3 members of the graduate faculty.

The departmental website page with some additional information, e.g., the Graduate Handbook and milestones, can be found at http://physics.ku.edu/graduate-studies

Rationale for proposal
This proposal is to update the requirements for and details of the MS with emphasis in Computational Physics and Astronomy. Since this emphasis has laid dormant for several years and there has been a recent interest among graduate students for this degree, we wanted to update it with the proper courses now available through our partnering departments (MATH and EECS).

Additional Information

Supporting Documents

Program Reviewer Comments

Rachel Schwien (rschwien) (09/07/17 9:45 am): Rollback: for additional edits