Program Change Request

Date Submitted: 03/05/20 1:15 pm

Viewing: MA 783L&S : Physics

Last approved: 04/29/19 1:17 pm
Last edit: 03/25/20 1:07 pm
Changes proposed by: zander1

Catalog Pages Using this Program

Physics, M.A.

Name of the school or college academic planner who you consulted with on this proposal.

Name
Elaine M Klein - L&S

Proposal Abstract/Summary:
Program is functioning as a non-admitting program, requesting expedited approval to update the system with reality. 2019-20 had updates to the MS restructuring and now those are complete so we would like the MA accurately reflected in the system as non-admitting.

3/25/2020 - grievance policy added by Graduate School

If approved, what term should the proposed change be effective?
Fall 2020 (1212)

Select yes if this proposal is only to add, remove, or rearrange curricular requirements, and will change less than 50% of the curriculum.

No

Basic Information

Program State: Active
Type of Program: Degree/Major
Who is the audience?
Graduate or professional
Home Department: PHYSICS
School/College: College of Letters and Science

https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
The program will be governed by the home department/academic unit as specified. Will an additional coordinating or oversight committee be established for the program?

No

Is this in the Graduate School? Yes

Award: Master of Arts

SIS Code: MA 783L&S

SIS Description: Physics MA

Transcript Title: Physics

Named Options:

Will this be offered as an additional major as well? No

Is this a non-admitting master’s degree? Yes No

Roles by Responsibility: List one person for each role in the drop down list. Use the green + to create additional boxes.

<table>
<thead>
<tr>
<th>Role Type</th>
<th>Name (Last, First)</th>
<th>Email</th>
<th>Phone</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Chair</td>
<td>Dasu, Sridhara</td>
<td><a href="mailto:srdasu@wisc.edu">srdasu@wisc.edu</a></td>
<td>608/262-3678</td>
<td></td>
</tr>
<tr>
<td>Faculty Director</td>
<td>Schmidt, Jeffrey</td>
<td><a href="mailto:jrschmi2@wisc.edu">jrschmi2@wisc.edu</a></td>
<td>608/890-2004</td>
<td></td>
</tr>
<tr>
<td>Primary Contact</td>
<td>Holland, Michelle</td>
<td><a href="mailto:zander1@wisc.edu">zander1@wisc.edu</a></td>
<td>608/262-9678</td>
<td></td>
</tr>
<tr>
<td>Primary Dean’s Office Contact</td>
<td>Cornelius, Kimbrin</td>
<td><a href="mailto:klcornelius@wisc.edu">klcornelius@wisc.edu</a></td>
<td>608/890-3827</td>
<td></td>
</tr>
</tbody>
</table>

List the departments that have a vested interest in this proposal.

<table>
<thead>
<tr>
<th>Departments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics (PHYSICS)</td>
</tr>
</tbody>
</table>

Are all program reviews in the home academic unit up to date? Yes

Are all assessment plans in the home academic unit up to date? Yes

Are all assessment reports in the home academic unit up to date? Yes

Mode of Delivery: Face-to-Face (majority face-to-face courses)

Will this program be part of a consortial or collaborative arrangement with another college or university? No

Will instruction take place at a location geographically separate from

Karen Mittelstadt (mittelstadt):
Rollback to L&S College Approver for APIR Admin

Elaine Klein (emklein): Rollback to Initiator

Michelle Holland (zander1): Approved for PHYSICS Dept. Approver

Elaine Klein (emklein): Approved for L&S College Admin Reviewer

Elaine Klein (emklein): Approved for L&S College Approver

Karen Mittelstadt (mittelstadt): Approved for APIR Admin

History

1. Sep 20, 2018 by clmig-kalatalo
2. Apr 29, 2019 by Michelle Holland (zander1)
UW-Madison?

Will this program have outside accreditation? No
Will graduates of this program seek licensure or certification after graduation? No

Year of three year check-in to GFEC (3 years after first student enrollment):

Year of first program review (5 years after first student enrollment):

If this proposal is approved, describe the implementation plan and timeline.

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**Rationale and Justifications**

What is the rationale for this change?
update system to reality

What evidence do you have that these changes will have the desired impact?
decrease confusion from prospective students who see this on the application but in fact it operates as non-admitting.

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**Faculty and Staff Resources**

Confirm that the program advisor(s) or coordinator(s) have been consulted and reviewed this proposal.

Select the Graduate Research Scholars Community for this program.

Letters & Sciences Community of Graduate Research Scholars

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**Resources, Budget, and Finance**

Is this a revenue program? No

What is the tuition structure for this program?

Given considerations associated with the proposed change, describe the academic unit’s fiscal capacity to support the instructional and curricular requirements, academic and career advising, student support services, technology needs, and relevant assessment of student learning and program review requirements. Is there sufficient capacity in the curricular and academic support services to meet the additional workload? For research graduate programs, include information on how the program will be administered and how student funding will be handled. For undergraduate programs, include information on academic advising, career advising, student support services.

Does the program or change require substantial new resources other than those just described? Describe the needs. Confirm that the dean is committed to providing the resources.

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**Curriculum and Requirements**

If you are proposing a change to the curriculum, what percentage of the curriculum is changing? No change

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This master’s program is offered for work leading to the Ph.D. Students may not apply directly for the master’s, and should instead see the admissions information for the Ph.D.

Admission is competitive. All applicants are reviewed and evaluated on the basis of previous academic record, three letters of recommendation, statement of purpose for graduate studies, resume, and Graduate Record Exam (GRE) general and subject scores. The physics subject GRE exam is required. For applicants whose native language is not English, official higher scores are required in TOEFL or IELTS (except for applicants from countries where English is an official language).
Language is not English, the department requires a minimum score of 580 (paper-based), 237 (computer-based), or 92 (internet-based) on the Test of English as a Foreign Language (TOEFL) exam, or 7 on the International English Language Testing System (IELTS) exam. All eligible applicants with complete files are considered for teaching or research assistantships and fellowships. To be considered for admission, students must submit all application materials (including test scores) via the Graduate School electronic application site by December 15.

**Graduate Admissions Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Deadline</td>
<td>December 15</td>
</tr>
<tr>
<td>Spring Deadline</td>
<td>This program does not admit in the spring.</td>
</tr>
<tr>
<td>Summer Deadline</td>
<td>This program does not admit in the summer.</td>
</tr>
<tr>
<td>GRE (Graduate Record Examinations)</td>
<td>Required</td>
</tr>
<tr>
<td>English Proficiency Test</td>
<td>Every applicant whose native language is not English or whose undergraduate instruction was not in English must provide an English proficiency test score and meet the Graduate School minimum requirements (<a href="https://grad.wisc.edu/apply/requirements/#english-proficiency">https://grad.wisc.edu/apply/requirements/#english-proficiency</a>).</td>
</tr>
<tr>
<td>Other Test(s) (e.g., GMAT, MCAT)</td>
<td>na</td>
</tr>
<tr>
<td>Letters of Recommendation Required</td>
<td>3</td>
</tr>
</tbody>
</table>

Please consult the table below for key information about this degree program's admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program's website.

Graduate admissions is a two-step process between academic programs and the Graduate School. Applicants must meet the minimum requirements of the Graduate School as well as the program(s). Once you have researched the graduate program(s) you are interested in, apply online.

Approved Shared Content from /shared/graduate-school-admissions/

Last Approved: Oct 16, 2019 6:46pm

Approved Shared Content from /shared/graduate-minimum-degree-requirements-and-satisfactory-progress/

Last Approved: Oct 25, 2018 11:29am

Minimum Graduate School Requirements

Review the Graduate School minimum academic progress and degree requirements, in addition to the program requirements listed below.

Major Requirements

**MODE OF INSTRUCTION**

<table>
<thead>
<tr>
<th>Mode of Instruction</th>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Mode of Instruction Definitions

Approved Shared Content from /shared/graduate-school-mode-instruction-definitions/

Last Approved: Oct 25, 2018 11:30am

**Evening/Weekend:** These programs are offered in an evening and/or weekend format to accommodate working schedules. Enjoy the advantages of on-campus courses and personal connections, while keeping your day job. For more information about the meeting schedule of a specific program, contact the program.

**Online:** These programs are offered primarily online. Many available online programs can be completed almost entirely online with all online programs offering at least 50 percent or more of the program work online. Some online programs have an on-campus component that is often designed to accommodate working schedules. Take advantage of the convenience of online learning while participating in a rich, interactive learning environment. For more information about the online nature of a specific program, contact the program.

**Hybrid:** These programs have innovative curricula that combine on-campus and online formats. Most hybrid programs are completed on-campus with a partial or completely online semester. For more information about the hybrid schedule of a specific program, contact the program.

**Accelerated:** These on-campus programs are offered in an accelerated format that allows you to complete your program in a condensed time-frame. Enjoy the advantages of on-campus courses with minimal disruption to your career. For more information about the accelerated nature of a specific program, contact the program.

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## CURRICULAR REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Credit Requirement</td>
<td>30 credits</td>
</tr>
<tr>
<td>Minimum Residence Credit</td>
<td>30 credits</td>
</tr>
<tr>
<td>Minimum Graduate Coursework</td>
<td>Half of degree coursework (15 credits out of 30 total credits) must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university's Course Guide (<a href="https://registrar.wisc.edu/course-guide/">https://registrar.wisc.edu/course-guide/</a>). No 300-level courses will be counted toward the 30 credit minimum.</td>
</tr>
<tr>
<td>Overall Graduate GPA</td>
<td>3.00 GPA required.</td>
</tr>
<tr>
<td>Other Grade Requirements</td>
<td>The Graduate School requires an average grade of B or better in all coursework (300 or above, not including research credits) taken as a graduate student unless conditions for probationary status require higher grades. Grades of Incomplete are considered to be unsatisfactory if they are not removed during the next enrolled semester.</td>
</tr>
</tbody>
</table>

### Assessments and Examinations

All master of arts degree candidates must pass the qualifying examination at the master's level. Contact the program for information on any language requirements.

### Required COURSES

All graduate degree candidates are required to take five core courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 711</td>
<td>Theoretical Physics-Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 715</td>
<td>Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 721</td>
<td>Theoretical Physics-Electrodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 731</td>
<td>Quantum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 732</td>
<td>Quantum Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>

The remaining 15 credits may be earned through a combination of coursework, directed study, and research, to be determined by the advisor in consultation with the student.

Total credits required: 30

Guide Graduate Policies tab

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Approved Shared Content from /shared/graduate-school-policies/

Last Approved: Oct 25, 2018 11:30am

### Graduate School Policies

The Graduate School’s Academic Policies and Procedures provide essential information regarding general university policies. Program authority to set degree policies beyond the minimum required by the Graduate School lies with the degree program faculty. Policies set by the academic degree program can be found below.

Major-Specific Policies Graduate Program Handbook is the repository for all of the program’s policies and requirements. Major-Specific Policies

### Prior Coursework

Graduate Work from Other Institutions

Prior coursework from other institutions may count toward any graduate degree in physics as allowed by the Graduate School policy on prior coursework.

UW–Madison Undergraduate

Up to 7 credits in courses numbered 500 or above may be used to satisfy minimum degree requirements.

UW–Madison University Special

With program approval and payment of difference in tuition (between Special and graduate tuition), students are allowed to count no more than 15 credits of coursework numbered 500 or above taken as a UW–Madison University Special student. Coursework earned five or more years prior to admission to a master’s degree...
Program Learning Outcomes and Assessment

List the program learning outcomes.

<table>
<thead>
<tr>
<th>Outcomes – enter one learning outcome per box. Use the green + to create additional boxes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mastery of the core physical concepts (classical mechanics, electricity and magnetism, quantum mechanics, and statistical mechanics).</td>
</tr>
<tr>
<td>2. Articulates, critiques, or elaborates the theories, research methods, and approaches to inquiry or schools of practice in physics.</td>
</tr>
<tr>
<td>3. Evaluates or synthesizes information pertaining to questions or challenges in physics.</td>
</tr>
<tr>
<td>4. Gains rudimentary awareness of physics research execution.</td>
</tr>
<tr>
<td>5. Communicates clearly in ways appropriate to the field of physics.</td>
</tr>
</tbody>
</table>

Summarize the assessment plan.

Assessment plan had been updated more than a year ago but not submitted to GUIDE.

Approved Assessment Plan: [Physics_MAMS_Y1-3Plan_CurricMap.docx](https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver)
# Supporting Information

List name and department of those who are in support of this proposal.

If those supporting the proposal provided a letter or email of support upload here. A letter is NOT required. Upload any other explanatory information about support from other UW-Madison units.

**Additional Information:**

## Approvals

**Department Approval** - This proposal has been approved by the faculty at the department/academic unit level. The program faculty confirm that the unit has the capacity and resources (financial, physical, instructional, and administrative) to meet the responsibilities associated with offering the program, including offering the necessary courses, advising students, maintaining accurate information about the program in the Guide and elsewhere, conducting student learning assessment and program review, and otherwise attend to all responsibilities related to offering this program.

Enter any notes about approval here:  
Department Chair confirms intent of MA to remain as non-admitting. Email exchange with Emily Reynolds and Elaine Klein are supportive of making the record conform with reality that this program functions as a non-admitting program and admissions data agrees with this.

Entered by: 
Date entered: 

**School/College Approval** - This proposal has been approved at the school/college level and it is submitted with the Dean's support. The Dean and program faculty confirm that the unit has the capacity and resources (financial, physical, instructional, and administrative) to meet the responsibilities associated with offering the program, including offering the necessary courses, advising students, maintaining accurate information about the program in the Guide and elsewhere, conducting student learning assessment and program review, and otherwise attend to all responsibilities related to offering this program.

Enter any notes about approval here:  

Entered by and date:  
Elaine M. Klein, Assoc Dean for Academic Planning Date entered: 3/3/2020

**GFEC Approval** - This proposal has been approved by the Graduate Faculty Executive Committee and the Dean of the Graduate School.

Enter any notes about the approval here: 

Entered by: 
Date entered: 

**UAPC Approval** - This proposal has been approved by the University Academic Planning Council and the Provost.