

Rollins College

## Rollins Scholarship Online

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Curriculum Committee Minutes

College of Liberal Arts Minutes and Reports

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10-18-2022

### **Minutes, Curriculum Committee Meeting, Tuesday, October 18, 2022**

Curriculum Committee

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Curriculum Committee  
Meeting Minutes (approved)  
October 18, 2022

In attendance: Emily Russell (chair), Samantha Fonseca-Douguet, Mattea Garcia, Robin Gerchman, Raghavendra KC, Susan Montgomery, Perry Middleton, Kasandra Riley, Marc Sardy, Steve Schoen, Mae Fitchett, Tiffany Griffin, Stephanie Henning, Toni Holbrook, Ashley Kistler, Rob Sanders

Absent: Yusheng Yao

Guests: Chris Fuse, Alberto Prieto-Calixto, Joseph Pool (SGA), Evan Link (SGA)

- I. Approval of minutes from September 27, 2022 meeting  
*Motion to approve by Kasandra Riley; second by Perry Middleton*

Approval of minutes from October 1, 2022 emergency meeting  
*Motion to approve by Susan Montgomery; second by Steve Schoen*

- II. Subcommittee Reports
  - a. Academic Appeals
    - i. No report
  - b. New Course Proposals
    - i. Deadline of Nov. 1 for incoming new proposals
  - c. Registration
    - i. No report
  - d. SDG Task Force
    - i. No report

- III. Physics Major revisions
  - a. See addendum

Post-graduation conversations with alumnae revealed that there are holes in the curriculum, specifically with alumnae attending graduate schools and those in the workforce. The Physics Department reviewed current curriculum (last revised in 2016) and restructured it to best represent a balance of fundamentals, research, and special topics.

*Motion to discuss by Mattea Garcia; second by Marc Sardy*

Q: Is there a concern that the curriculum will need to be restructured if Rollins votes to approve the 128-credit requirement for graduation?

A: The faculty of the department discussed this and acknowledged that the proposed requirements are already slimmed down, and an approved 128-credit requirement will not affect the curricular changes.

Q: Why is it necessary to offer so many topics courses?

A: There are many facets of Physics, and each of the faculty specialize in something different. Topics courses will give the students an opportunity to explore focused fields of Physics when making career or graduate school decisions. It also provides faculty a chance to teach courses within their specialization.

Q: When do students take a capstone course?

A: Senior year

*Changes to Physics Major requirements: Unanimously approved*

IV. Proposed Guidelines for Graduate Certificates

a. See addendum

Currently there are no guidelines to format graduate certificates. Guidelines are necessary for accreditation, credit-alignment, and transfer of credit possibility. These guidelines follow the ACE accreditation for certificate programs.

*Motion to discuss by Marc Sardy; second by Mattea Garcia*

Q: Why do the parameters seem so relaxed?

A: This keeps it flexible. The word “certificate” is used loosely and broadly, however Crummer and Holt certificates are academic and credit-bearing. With a flexible format, a student can get a taste of a program and see if they can do graduate level work. A credit-bearing Rollins Certificate will apply toward the credits needed for a Rollins graduate program.

Q: Is financial aid available for the certificate students?

A: No. Only if the certificate is part of a graduate program.

Q: Is SACS moving to codify certificates?

A: SACS does not have guidelines for this. We supply SACS with notification of approval of certificate programs. This is not a required SACS policy. It is then reported to IPED that students are receiving these credentials.

Q: What is the balance between Program Director oversight and Dean’s office, marketing, etc.?

A: Graduate directors are more involved than undergraduate directors. Certificate Director responsibilities are not as laborious as Program Director responsibilities.

Q: Who is the admissions target?

A: Non-degree seeking students, however graduate students who choose to receive the certificate may do so.

Q: What is the difference between minor and certificate?

A: You do not have to be a degree-seeking student to receive a certificate.

*Proposed Guidelines for Graduate Certificates: Unanimously approved*

- V. Holt Transfer Credit Policy
  - a. See addendum

Holt seeks to make two additions to current policy for Credit for Alternative Learning. Applied credit transfer was approved in 2020.

- i. Alternative accreditation transfer
- ii. Professional certification and licensure credit

ACE has a data base of professional certifications of rigorous professional development for adult learners. They then deem how many credits to associate with certification. Holt will follow the ACE guidelines for accepting the transfer credits.

*Motion to discuss by Susan Montgomery; second by Kasandra Riley*

Q: What about credit for prior learning regarding accreditation?

A: There are concerns when presenting this to SACS. Toni Holbrook will be researching this. Meanwhile there is a pause on presenting credits for prior learning.

Q: What about students who start at Holt and transfer to CLA?

A: Credits do not transfer between Holt and CLA programs. Students could potentially lose a semester, or two, if transferring from Holt to CLA. If this occurs, Degreeworks will extract the prior learning credits from the file.

Q: Logistics v. process to administer; for example: when is it okay to give credit for a professional certificate?

A: ACE has made a determination of what is acceptable, and this is what Holt is following.

Q: SACS questions the cognate of certificates and their academic standing. How will this be assessed by the registrar's office?

Response: This assessment already exists. It will be documented as general elective credit.

Members asked to look at ACE website and review those certificates that have been accepted and approved

*Motion to table Proposed Guidelines for Graduate Certificates moved by Marc Sardy; second by Perry Middleton*

- VI. German Program Closure (tabled from September 6)
  - a. See addendums

90% of students request Spanish language courses. The number of students taking German is declining. Once Nancy Decker retired, it was not possible to keep the courses running because the enrollment numbers did not support them. Department voted unanimously to close the German program.

*Motion to approve closure of German Program moved by Steve Schoen; second by Mattea Garcia*

Q: Concern about limited foreign language courses and offerings for the International Business students

A: Other language programs are thriving or rebuilding, such as Arabic, Chinese, and Hebrew.

Comment: Students need to understand when the language courses are not offered beyond the 100-level because the course will not suffice as a progression toward the Foreign Language competency.

Comment: Closing the German Minor program does not mean that German language courses will not be offered.

Q: What are the minors currently offered in the Foreign Language program?

A: Spanish and French

Comment: Students have expressed serious issues with elimination of foreign language minors. Please consider Arabic and/or Chinese minor.

*Proposal to close German Minor: One opposition; Two abstention; Seven affirmative Motion passes*

- VII. Report: DEI requirement external research
  - a. Please review prior to next meeting

Note: no meeting October 25 (conflict with Chair's meeting)

Adjourned 1:47pm



# ROLLINS COLLEGE POLICY

Title: Guidelines for Academic Graduate Certificate Programs	Type	Academic
No: AC 2011	Approval Date: <u>X-XX-2022</u>	
Responsible VPAA/Provost; Deans of Crummer and Holt	Reviewed By: VP Academic Affairs & Provost, 9-23-2022; CLA Curriculum Committee, <u>XX-XX-2022</u> ; CLA Executive Committee, <u>XX-XX-2022</u> ; CLA Faculty, <u>XX-XX-2022</u> ; Crummer Faculty, <u>X-XX-2022</u> ; President’s Cabinet, <u>X-XX-2022</u> ; Approved By: President, <u>X-XX-2022</u>	
Next Review: 2028	Revision No:	

## I. Purpose/Introduction/Rationale

Even though Academic Graduate Certificate Programs are not degree-bearing, they earn academic credit, are designated on a student’s official transcript, and are as much a reflection on Rollins’ quality of education as any other assemblage of courses. As a result, careful consideration should be given to the creation of a new certificate program based not only upon need and interest, but also upon how the program fits into Rollins’ educational portfolio. These guidelines are intended to provide guidance and consistency for the development and management for non-degree graduate certificate programs in the College’s Crummer Graduate School of Business and the Hamilton Holt School.

## II. Definitions

**Academic Graduate Certificate Program.** A cluster of related credit-bearing courses that constitutes a coherent body of study within a discipline or set of related disciplines.

## III. Procedure or Application

- A. Curriculum.** There are therefore no specific requirements for the the number of credit hours comprising a Rollins Academic Graduate Certificate Programs (“Certificates”). Rather, the credit hours required for Certificates are dictated by the associated disciplinary degree requirements. Certificates are typically less than one half of the credit-hour requirements of the most closely related degree program, usually comprising 12-18 semester credit hours. For example, a Certificate in Racial Reconciliation and Community Restoration requires 16 semester credit hours, one-third of the 48-credit-hour-requirement for the College’s Master of Liberal Studies degree, under which the certificate is offered.
- B. Methods of Instruction.** Instructional delivery of Certificates should be made via the same format as all other courses offered by the College: at Rollins, traditionally the face-to-face course. Online (either synchronous or asynchronous) courses are allowed, but all instruction must meet the guidelines for the College’s current online/distance and blended education approvals from its institutional accreditor, the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). The College’s current approval for online/distance education establishes that no more than 49% of any program shall be delivered via online/distance instruction without notification to SACSCOC. (*Note:* The College’s M.A. in Applied Behavior Analysis program has been approved for online/distance education of 50% or more, but each additional program added in this category requires notification to SACSCOC. Graduate Certificate programs seeking to deliver instruction via more than 50% online/distance education should allow additional approval time for preparation and transmission of necessary notifications to SACSCOC.)
- C. Academic Regulations.** Certificates may include courses that are a part of an academic program or courses created specifically for the Certificate. Coursework used for a Certificate may be used to fulfill requirements for Rollins’ graduate degrees. Issues related to transfer credit, coursework completed prior to entering the Certificate program, and expiration of the program of study, will be consistent with other programs in the respective academic unit.
- D. Student Eligibility.** Graduate students may complete a Certificate in a specialized field within their major or in another field that enhances their career interests. Non-degree seeking students may pursue a Certificate with the

approval of the academic unit if the applicant holds an earned bachelor's degree from a regionally-accredited institution of higher education or the equivalent. All students (degree seeking, non-degree seeking, or post-baccalaureate) wishing to complete a Certificate must apply and be admitted by the academic unit offering the Certificate. Admission criteria must include an application form, resume, and earned degree transcripts; programs may require other items (e.g., test scores, writing samples, etc.).

- E. Program Oversight.** Each Certificate program shall have a designated and appropriately credentialed faculty program director who is responsible for administering the program, ensuring the quality of its educational offerings, completing assessment of student learning outcomes (DoL system reporting), and meeting the needs of students.
- F. Approval and Review.** As for all degree programs, all new Certificate programs, as well as changes to or closures of existing Certificate programs, must be follow proposal and approval processes detailed in College Policy [KI 1003 Creation-Revision of Academic, Non-Credit, Collaborative Programs](#). These processes include preparation of: a detailed proposal, Vice President for Academic Affairs (VPAA) and Provost New Program Approval Cover Sheet, a three year financial proforma, and a Demonstration of Learning (DoL) assessment of student learning outcomes plan. Approvals by the sponsoring department(s)/programs(s), Dean, Vice President for Academic Affairs (VPAA) and Provost, as well as appropriate faculty governance bodies, the President's Cabinet, and the College President, are also required. Though Board of Trustees approval is not required for Certificated, the VPAA/Provost will notify the Education Committee of the Board of Trustees of the new offering.

No public announcement of the Certificate program, acceptance of applications, or student enrollment may be undertaken until all internal review processes are complete and all necessary notification or approval documentation has been transmitted to the College's institutional accreditor, SACSCOC.

## **IV. Related Policies**

[KI 1003 Creation-Revision of Academic, Non-Credit, Collaborative Programs](#)

## **V. Appendices/Supplemental Materials**

Not applicable.

## **VI. Effective Date**

This policy is effective **XXXXXX XX**, 2022, and supersedes all previously issued versions.

## **VII. Rationale for Revision(s)**

Not applicable.



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## **VII. Rationale for Revision(s)**

Not applicable.

## **Holt Updated Policy Proposal regarding Transfer Credit**

### ***Summary of Proposed Changes***

The following changes are proposed to update and further clarify the Transfer Credit policies for the Hamilton Holt School:

- Added a new section for Credit for Alternative Learning that includes:
  - Applied Credit Transfer (previously approved in 2020)
  - Alternate Accreditation Transfer
  - Professional Certification & Licensure Credit

### ***Rationale for Proposed Changes***

Adult learners often return to school to pursue programs in fields of study in which they already possess college level credits from other schools and/or years of relevant, real-world experience. To compete with other schools serving the needs of adult learners, Rollins has long had a policy to accept transfer credit from a wide range of accredited institutions and to recognize prior learning in specialized areas as demonstrated through a variety of exams or programs (i.e. AP, IB, CLEP). The goal of this proposal is to broaden the scope of this transfer credit policy as a way to acknowledge the fact that many adult students have a varied academic history and are bringing a diverse transcript of college-level coursework with them to achieve their goal of completing a degree at Rollins. Our willingness to consider a broad range of college-level coursework that when viewed as potential electives, would complement our liberal arts ethos and commitment to diversity, equity, and inclusion given the strong correlation between marginalized and underrepresented students and more nontraditional academic paths to earning a degree. Doing so honors the American Association of Collegiate Registrars and Admissions Officers (AACRAO) recommendation that “all transfer students enjoy the maximization of available credit in transfer in support of reduced cost to students and the most efficient time to degree completion.”

Given Rollins’ new community college partnerships through the Rollins Pathways program, we anticipate seeing increased interest from Valencia and Seminole State students from their programs who see Rollins as a desirable college to continue and further their educational pursuits. Rollins’ willingness to accept a broad array of transfer coursework that reflects a more diverse range of programs will reduce unnecessary barriers to enrollment at Rollins/Holt and contribute to the quality and integrity of our liberal arts curriculum.

**Current Policy with proposed changes in red:**

**TRANSFER CREDIT**

Transfer students must meet all general education curriculum and major requirements to earn a Rollins College degree. The Office of the Registrar reviews and evaluates courses taken at other institutions, determines courses/credit to be accepted, and prepares a Transfer Course Evaluation. The major department makes decisions regarding fulfillment of major requirements through transfer credit. Transfer credit for general education courses, electives, advanced placement, and other forms of transfer credit are reviewed and approved by the Registrar's Office in consultation with the faculty in relevant departments. The evaluation lists all courses accepted and any general education requirements those courses fulfill.

To receive credit, an official transcript or score report must be submitted to Rollins College directly from the issuing institution or test provider. In the evaluation of transfer credit, four (4) semester hours of credit equals one Rollins course. Transfer credit is awarded for coursework completed at regionally accredited (Middle States, North Central, New England, Northwest, Southern, and Western Association) institutions, or the equivalent international institution for courses completed with a grade of C- or higher with the exception of internships where a grade of P (pass) or CR (credit) has been earned.

Students with sixty (60) semester hours of credit enter Rollins College with junior standing. All official transcripts must be received prior to registering for the second semester. A registration hold will be placed on the student's record until the required transcript is received.

Rollins College participates in an articulation agreement between the Independent Colleges and Universities of Florida (ICUF) and the Division of Florida Colleges. Through this participation, students who enter Rollins with a completed Associate of Arts (AA) degree from a Florida state college matriculate with junior standing and are usually able to transfer a total of sixty (60) semester hours, provided that they meet the same standards and program requirements as native Rollins students. Hamilton Holt students will also be allowed to transfer up to 16 hours of coursework typically offered through Associate of Science (AS) degree programs taken prior to admission. As part of the College's participation in the ICUF Articulation Agreement, students with the A.A. degree from a Florida state college are considered to have met general education requirements. The Hamilton Holt

School at Rollins College can accept up to 92 hours of transfer credit. If a course taken previously is repeated at Rollins, credit for the transfer course will be removed from the student's record.

A student's previous grades transfer to the Rollins academic record, but do not count in the Rollins GPA.

In light of the COVID-19 pandemic, the following policy was approved by the Rollins College faculty to apply to the transfer of credit for courses elected for pass/fail (or similar non-GPA impact) grading at other institutions and is applicable to Spring 2020 transfer grades only:

1. Rollins will accept transfer credits for pass (P) grades from institutions who do not define a pass grade as C- or better;
2. These credits will be allowed to satisfy competencies, general education, prerequisites and to count toward majors/minors in the same manner as Rollins's COVID-19 P/PD/NP policy.
3. When an institution differentiates between pass and pass with D, the pass with D grade will not be accepted for transfer.

### **ADVANCED STANDING CREDIT**

Students may receive advanced standing by several means. This includes but is not limited to credit for Advanced Placement (AP), International Baccalaureate (IB), and dual enrollment courses. Credit granted for any of these or by similar means does not automatically exempt a student from the general education requirements of the College. Please contact the Holt School Office for additional information.

### **ADVANCED PLACEMENT (AP)**

Students are awarded four (4) semester hours of credit for each AP examination on which they earn a score of four (4) or five (5). Students who present scores of four (4) or higher on the AP English Language and Composition examination or the AP English Literature and Composition examination are exempt from satisfying the College's Writing general education curriculum requirement. Students who present scores of four (4) or five (5) on the AP Statistics examination are exempt from satisfying the College's Quantitative Reasoning general education curriculum requirement. Credit earned from other AP examinations does not exempt students from any other of the College's general education curriculum requirements.

### **INTERNATIONAL BACCALAUREATE (IB)**

Credit for IB course work is granted for students with an IB diploma, on a course by course basis. Students with an IB Diploma and a score of thirty (30) or better will be

awarded one year (thirty-two [32] semester hours) of credit. Students without the Diploma, or with the Diploma and a score of less than thirty (30), will be awarded eight (8) semester hours for each higher-level score of five (5) or better and four (4) semester hours for each score of four (4) or better (on a higher or subsidiary level), to a maximum of twenty-four (24) semester hours. General education credit will be awarded as appropriate, to be determined by suitable bodies. Advanced placement will be awarded for major courses, subject to departmental approval. Students who present both IB and AP work in the same subject area will not be awarded double credit.

### **OTHER EXAMINATIONS**

Grades of 'A' through 'C' on most British GSE A-level exams earn two course credits, eight (8) semester hours, per examination.

### **MILITARY CREDIT**

Credit is given for USAFI or DANTES courses and some military specialty schools. Official transcripts for USAFI and DANTES should be obtained from the DANTES Contractor Representative, Educational Testing Service, P.O. Box 2879, Princeton, NJ 08541. Transcripts may also be ordered online at [www.dantes.doded.mil/service-members/transcripts/index.html](http://www.dantes.doded.mil/service-members/transcripts/index.html).

### **COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)**

The Holt School has the following guidelines for awarding credit for CLEP General or Subject examinations:

1. A student must complete any examination, and official score results must be received prior to achieving junior status (64 earned semester hours) in the Holt School.
2. CLEP exams must be completed and official score results received prior to the term in which a student begins his or her residency in the Holt School.
3. CLEP General or Subject examinations will not be used to fulfill major or minor core or elective requirements. Such examinations may be used to fulfill general education (if appropriate) or general elective requirements. Students who receive a score of 65 or better on the English General Examination with Essay receive credit and are exempt from [ENG 140](#) only.
4. Students who score within the acceptable guidelines on the CLEP General or Subject examinations may receive up to the equivalent of nine courses of credit. Examinations may not duplicate course material previously covered.

CLEP credit is recorded on the student transcript as examination/lower-level transfer credit and does not satisfy residential requirements for graduation or honors.

### **CREDIT FOR ALTERNATIVE LEARNING**

Students in the Hamilton Holt School may receive additional transfer credit for educational experiences and alternative learning including applied credit, credit from schools holding alternative accreditation, professional certifications or licensure, and credit for prior learning. Students may receive a total of 32 credit hours from any combination of the below alternative credit awarding options. Credits awarded do not equate to a letter grade and will not factor into a student's grade point average (with the exception of CPL). Credits awarded from alternative learning will not transfer to the Rollins College of Liberal Arts.

#### **Applied Credit Transfer (previously approved in 2020)**

Students are eligible to receive up to 16 credits of general elective credit for applied learning for courses that are deemed as career readiness, technical or vocational and do not have academic cognates offered at Rollins. These courses are often but not limited to courses earned within associates of science or technical certificates. *(Note: Courses completed within these programs that have academic cognates at Rollins will be transferred using the traditional transfer policies outlined in the previous section.)*

Courses must have been completed and receive a grade of C- or higher to be eligible for transfer credit.

#### **Alternate Accreditation Transfer**

Students transferring to the Hamilton Holt School at Rollins College are eligible to receive up to 16 credits of general elective credit for courses completed at schools that hold national accreditation, accreditation recognized by the Council for Higher Education Accreditation (CHEA) and by the US Department of education and eligible to award title IV federal financial aid. Students must submit an official copy of their transcript to receive credit.

Courses must have been completed and receive a grade of C- or higher to be eligible for transfer credit and are not subject to the above 32 credit hour limit.

#### **Professional Certification & Licensure Credit**

Students transferring to the Hamilton Holt School at Rollins College are eligible to receive up to 8 credits of general elective credit for professional certifications

recognized by the American Council on Higher Education (ACE). Each approved certification is equated to two credit hours. Students must submit proof of certification in the form of an official score report or official certificate of completion to receive credit.

ACE credit will appear as a "CR" grade - these credits are not assigned a letter grade and will therefore not be factored into a student's overall grade point average. Credits awarded cannot count as general education or major requirements and are not equivalent to specific courses within the Rollins curriculum.

### **PERMISSION TO TAKE COURSES IN ANOTHER PROGRAM**

Holt School students who are degree seeking may request permission from their advisors to take a specific course in another program conducted by the College under the following conditions:

1. Only one course per year after being a Holt School student for at least one year. The Director of Student Services in exceptional cases may waive this rule.
2. A maximum of five Holt School students per day course will be permitted in any non-cross-listed course.
3. A student must be concurrently enrolled in Holt School courses in order to take a course in the College of Liberal Arts, unless special permission is obtained from the Director of Student Services and Registrar. If a student subsequently withdraws from all Holt School courses, he or she must also withdraw from the College of Liberal Arts course.

Courses taken in another program to complete a student's requirements will be charged at the Holt School rate. This policy does not apply to cross-listed courses that are open to all students at the tuition of the division in which they are enrolled. (Cross-listed courses are designated with an "X" suffix in the section number.)

Students with senior ranking and with a 3.3 or better cumulative GPA may enroll for one Master of Liberal Studies elective course each semester provided that they maintain a "B" or better in each attempted course. Graduate tuition fees will be applied. Course will not count toward the major or general education requirement.

Students from other Rollins programs taking Holt School courses for completion of general education or major requirements should obtain written approval from their program prior to registration for Holt School courses. Consult a program coordinator for further details. Students from other Rollins programs must have a

2.0 institutional GPA and be in good academic standing to participate in Holt School courses.

August 25, 2022

The Physics department seeks to restructure its curriculum to better meet the needs of our students. The proposed curricular changes would first and foremost address the preparation of our students, better enabling them to pursue graduate study and careers in science, engineering, and beyond.

Following extensive discussions regarding the effectiveness of the current curriculum, best practices within our benchmark institutions, and the skills we believe our students must have achieved to earn a Rollins Physics degree, the department decided to make subtle yet substantive changes to the curriculum. Additionally, we wanted to develop a new curriculum which we could efficiently staff, was clear to both current and prospective students, and was aligned with Rollins policies (minimum number of students for a class to run and a possible change from 140 to 128 credit graduation requirements).

The proposed curriculum emphasizes four “pillars” of advanced physics (Thermodynamics, Mechanics, Electricity & Magnetism, and Quantum Mechanics) – courses which all Physics majors should have taken prior to pursuing graduate study or a career. The goals of the proposed curriculum would be that majors develop strong problem-solving skills, be able to apply physics in guided research, and to communicate science to different audiences.

The proposed curriculum simplifies the elective model currently in place. All students would take all fourteen (14) courses and every student would graduate with the same foundational and advanced coursework. Students would each take five (5) courses in advanced physics, the four “pillar” courses previously mentioned as well as a topics course which would ostensibly rotate among the research specialties of faculty within the department. Students would also be required to take a research seminar (PHY 490) which would ensure that all graduates have experience designing an experiment and analyzing and communicating the results.

While the proposed curriculum is 60 credits (2 credits more than the current curriculum), the department is well below any limitations a 128-credit graduation requirement might impose. Such a curricular change could be easily staffed with current faculty, no additional faculty lines or resources would be required.

Proposed Physics curriculum (14 courses, 60 credits total)

Courses

MAT 111: Calculus I (4cr.)

MAT 112: Calculus II (4cr.)

PHY 130: Principles of Physics I (6 cr.)

PHY 131: Principles of Physics II (6cr.)

PHY 215: Principles of Physics III (6cr.)

PHY 220: Mathematical Methods I (4cr.)

PHY 221: Mathematical Methods II (4cr.)

PHY 295: Topics in Physics (4cr.)

PHY 300: Thermodynamics (4cr.)

PHY 308: Mechanics (4cr.)

PHY 314: Electricity & Magnetism (4cr.)

PHY 451: Quantum Mechanics (4cr.)

PHY 490: Research Seminar (4cr.)

PHY 496: Senior Seminar (2cr.)

\*Courses highlighted in yellow would be newly developed; PHY 215 would adapt information from the old curriculum PHY 230 course and would add a lab component.

Old curriculum (14 courses, 58 credits total)

Foundational Courses

MAT 111: Calculus I (4cr.)

MAT 112: Calculus II (4cr.)

PHY 130: Principles of Physics I (6 cr.)

PHY 131: Principles of Physics II (6cr.)

PHY 220: Mathematical Methods I (4cr.)

PHY 221: Mathematical Methods II (4cr.)

PHY 230: Modern Physics (4cr.)

PHY 232: Experimental Physics Lab (4cr.)

PHY 308: Mechanics (4cr.)

PHY 314: Electricity & Magnetism (4cr.)

PHY 496: Senior Seminar (2cr.)

Electives (Choose 2 courses)

PHY 300: Thermodynamics (4cr.)

PHY 315: Electricity & Magnetism II (4cr.)

PHY 411: Optics (4cr.)

PHY 451: Quantum Mechanics (4cr.)

Advanced Lab (Choose 1 course)

PHY 412: Optics Lab (4cr.)

PHY 425: Computational Physics (4cr.)