

Program Modification

Program modifications must be submitted by October 15, 2012, and finalized by the end of that fall semester for catalog production.

Enter data in **YELLOWED** areas.

Date (Change date if modified and update the file name with the new date): 2012 2013 Catalog Copy **2013-2014**; rev 2.6.13

Program Area: **Math and Applied Physics**

Semester /Year First affected: **Fall 2013**

Instructions: Please use this Program Modification form for changes to existing program requirements, units, outcomes, emphases or options, or for other programmatic concerns. For minor changes (faculty or address changes, additions of approved electives, minor editing for clarity, and other minor updates) use the Program Update form, available at the Curriculum website.

Paste the latest approved version of your entire program in the left AND right boxes below. Make your deletions in the LEFT column by using the strikethrough feature in Word or underlining, **and highlight**. Insert new language or other changes to the program on the RIGHT and highlight in **YELLOW** for easy identification. If possible, please align the two columns so that changes appear side-by-side with the original text.

SUMMARY OF CHANGES

Replace 434 with 400 on the Technology emphasis. Changes to the Physical Sciences emphasis – upgrade to higher-level chemistry and biology courses, make Math 350 a requirement and MGT 325 an elective. Housekeeping and typographical fixes.

JUSTIFICATION

Introduce a course in the technology emphasis to strengthen applied quantum content (removing 434). Changes to Physical sciences emphasis to meet CTCC requirements on teacher credentialing. To fix typos, alpha order and update faculty listing.

CURRENTLY APPROVED PROGRAM

Applied Physics

Programs Offered

- Bachelor of Science in Applied Physics
 Emphasis in Technology
 Emphasis in Physical Sciences
- Minor in Applied Physics

Applied physics is the interface between science and technology, between the

PROPOSED PROGRAM

Applied Physics

Programs Offered

- Bachelor of Science in Applied Physics
 Emphasis in Technology
 Emphasis in Physical Sciences
- Minor in Applied Physics

Applied physics is the interface between science and technology, between the

laboratory and industrial practice. It applies the concepts and models of physics to practical technological applications. Applied physics is essentially an interdisciplinary undertaking, interacting with mathematics, computer science, engineering, the life sciences, medicine and other disciplines. Applied physicists use their understanding and skills at the new scientific and technological frontiers that are developing rapidly at the interface between more traditional disciplines, e.g. biophysics, biomedical engineering, bioinformatics, materials science, and medical imaging. They have the flexibility to adapt to changing technological requirements and the ability to make meaningful contributions to modern, interdisciplinary investigations.

Careers

Graduates from the Bachelor of Science in Applied Physics will receive an excellent preparation for securing professional employment in industry or in the public sector.

The Bachelor of Science in Applied Physics with an Emphasis in Technology is designed to produce graduates with strong problem-solving, technical, industrial and management skills. This will enable them to obtain professional employment on graduation in research and development in industry or in the public sector in, for example, electronics, semiconductors, medical technology and telecommunications. Through appropriate selection of electives, students can concentrate on selected areas within applied physics and pursue further study in graduate or professional schools, for example in Experimental Physics, Computer Engineering, Materials Science, Biomedical Engineering, or Medical Physics.

The Bachelor of Science in Applied Physics with an Emphasis in Physical Sciences is designed to provide students with a broad foundation in applied physics as part of a liberal education in the sciences. The program is particularly appropriate for students interested in such careers as teaching, public service, business, scientific equipment sales or science journalism. It can serve as the depth and breadth of study necessary for securing a single Subject credential in Science for teaching at the high school and middle school level.

The Applied Physics Minor provides non-majors with the background in science and technology that is needed to pursue a career or graduate study in an interdisciplinary field. Students majoring in Mathematics or Computer Science, in particular, should consider obtaining an Applied Physics minor because of the considerable overlap with these fields.

Program Learning Outcomes

Students graduating from the Applied Physics program will be able to:

- Explain the fundamental concepts of physics;
- Analyze and solve problems by applying information in a novel context;

laboratory and industrial practice. It applies the concepts and models of physics to practical technological applications. Applied physics is essentially an interdisciplinary undertaking, interacting with mathematics, computer science, engineering, the life sciences, medicine and other disciplines. Applied physicists use their understanding and skills at the new scientific and technological frontiers that are developing rapidly at the interface between more traditional disciplines, e.g. biophysics, biomedical engineering, bioinformatics, materials science, and medical imaging. They have the flexibility to adapt to changing technological requirements and the ability to make meaningful contributions to modern, interdisciplinary investigations.

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Graduates from the Bachelor of Science in Applied Physics will receive an excellent preparation for securing professional employment in industry or in the public sector.

The Bachelor of Science in Applied Physics with an Emphasis in Technology is designed to produce graduates with strong problem-solving, technical, industrial and management skills. This will enable them to obtain professional employment on graduation in research and development in industry or in the public sector in, for example, electronics, semiconductors, medical technology and telecommunications. Through appropriate selection of electives, students can concentrate on selected areas within applied physics and pursue further study in graduate or professional schools, for example in Experimental Physics, Computer Engineering, Materials Science, Biomedical Engineering, or Medical Physics.

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Program Learning Outcomes

Students graduating from the Applied Physics program will be able to:

- Explain the fundamental concepts of physics;
- Analyze and solve problems by applying information in a novel context;

- Formulate hypotheses and devise and perform experiments to test hypotheses as individuals and in a team;
- Apply current technology and scientific methodologies to analyze and solve problems in various scientific, professional and community settings;
- Use and critically evaluate current technical/scientific research literature, online information, and information related to scientific issues in the mass media;
- Communicate in written and oral forms key concepts in physics and general scientific issues with interested citizens and professionals;
- Work co-operatively as part of a research team; and
- Learn independently and maintain life-long learning in the sciences and technology.

Faculty

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- Formulate hypotheses and devise and perform experiments to test hypotheses as individuals and in a team;
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Bachelor of Science Degree in Applied Physics with an Emphasis in Technology (120 units)

Lower Division Requirements - 31-32 units

MATH	150*	Calculus I	4
MATH	151	Calculus II	4
MATH	230*	Logic and Mathematical Reasoning	3
MATH	240	Linear Algebra	3
MATH	250	Calculus III	3
PHYS	106*	Applied Physics and Modern Society	3
PHYS	200*	General Physics I	4
PHYS	201*	General Physics II	4

and

~~Select either:~~

~~COMP 105* Computer Programming Introduction 3~~

~~or~~

COMP 150* Object-Oriented Programming 4

Upper Division Requirements - **37** units

MATH	350	Differential Equations and Dynamical Systems	3
PHYS	301	Classical Physics	3
PHYS	304	Electromagnetism	4
PHYS	305	Thermal and Statistical Physics	3
PHYS	306	Modern Physics	3
PHYS	310	Electronics	4
PHYS	338*	Science and Conscience (ENGL)	3

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MATH	150*	Calculus I	4
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MATH	230*	Logic and Mathematical Reasoning	3
MATH	240	Linear Algebra	3
MATH	250	Calculus III	3
PHYS	106*	Applied Physics and Modern Society	3
PHYS	200*	General Physics I	4
PHYS	201*	General Physics II	4

and

~~Select either:~~

~~COMP 105* Computer Programming Introduction 3~~

~~or~~

COMP 150* Object-Oriented Programming 4

Upper Division Requirements - **37** units

MATH	350	Differential Equations and Dynamical Systems	3
PHYS	301	Classical Physics Mechanics	3
PHYS	304	Electromagnetism	4
PHYS	305	Thermal and Statistical Physics	3
PHYS	306	Modern Physics	3
PHYS	310	Electronics	4
PHYS	338*	Science and Conscience (ENGL)	3
PHYS	345*	Digital Image Processing	

PHYS	345*	Digital Image Processing (COMP/ MATH)	3
PHYS	434*	Introduction to Biomedical Imaging (BIOL/HLTH)	4
PHYS	448	Team-Based Research.....	3
PHYS	499	Senior Colloquium	1
and			

Select 3 units from the following (any combination):

PHYS	492	Internship.....	3
PHYS	494	Independent Research	1-3
PHYS	497	Directed Studies	1-3

Electives in the Major - 9-10 units

Select 9-10 units from the following:

MATH	352	Probability and Statistics	3
MATH	448	Scientific Computing	3
MATH	450	Partial Differential Equations and Mathematical Physics	3
MATH	451	Complex Analysis	3
PHYS	335*	Physics of Music (PAMU).....	3
PHYS	406	Solid State Physics	3
PHYS	445*	Image Analysis and Pattern Recognition (COMP/MATH)	3
PHYS	464	Medical Instrumentation (BIOL)	4
PHYS	490	Topics in Physics	3
PHYS	492	Internship.....	3
<i>(if not taken as a required course)</i>			
PHYS	494†	Independent Research.....	1-3
PHYS	497†	Directed Studies	1-3
PHYS	401‡	Quantum Mechanics	3

† Cannot exceed a total of 3 units, when added to units
taken within the upper division requirements

Required Supporting and Other GE Courses 42 units

American Institutions Requirement.....	6
Other Courses in GE Categories A-E.....	27
Electives in Any Discipline	9

		(COMP/ MATH)	3
PHYS	400	Quantum Physics	3
PHYS	434*	Introduction to Biomedical Imaging (BIOL/HLTH)	4
PHYS	448	Team-Based Research.....	3
PHYS	499	Senior Colloquium	1
and			

Select 3 units from the following (any combination):

PHYS	492	Internship.....	3
PHYS	494	Independent Research	1-3
PHYS	497	Directed Studies	1-3

Electives in the Major - 9-10 10-11 units

Select 9-10 units from the following:

MATH	352	Probability and Statistics	3
MATH	448	Scientific Computing	3
MATH	450	Partial Differential Equations and Mathematical Physics	3
MATH	451	Complex Analysis	3
PHYS	335*	Physics of Music (PAMU).....	3
PHYS	401‡	Quantum Mechanics	3
PHYS	406	Solid State Physics.....	3
PHYS	434*	Introduction to Biomedical Imaging (BIOL/HLTH)	4
PHYS	445*	Image Analysis and Pattern Recognition (COMP/MATH).....	3
PHYS	464	Medical Instrumentation (BIOL)	4
PHYS	490	Topics in Physics	3
PHYS	492	Internship.....	3
<i>(if not taken as a required course)</i>			
PHYS	494†	Independent Research	1-3
PHYS	497†	Directed Studies	1-3
PHYS	401‡	Quantum Mechanics	3

† Cannot exceed a total of 3 units, when added to units
taken within the upper division requirements

‡ Recommended for students proceeding to graduate school.

Required Supporting and Other GE Courses 42 units

American Institutions Requirement.....	6
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Bachelor of Science Degree in Applied Physics with an Emphasis in Physical Sciences - (120 units)

Lower Division Requirements - 35-36 units

CHEM	105*	Introduction to Chemistry	3
MATH	150*	Calculus I	4
MATH	151	Calculus II	4
MATH	250	Calculus III	3
PHYS	106*	Applied Physics and Modern Society	3
PHYS	200*	General Physics I	4
PHYS	201*	General Physics II	4

and

Select either:

PHYS	208*	Physics of Art and Visual Perception (ART) 3	
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or

PHSC	170*	Foundations in Physical Science	4
		<i>(Required for teachers)</i>	

and

Select either:

BIOL	100*	Exploring the Living World	4
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or

BIOL	170*	Foundations of Life Science	4
		<i>(Required for teachers)</i>	

and

Select either:

COMP	102*	Web Development	3
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or

COMP	105*	Computer Programming Introduction	3
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Upper Division Requirements - 27 units

MGT	325	Entrepreneurial Management	3
PHYS	304	Electromagnetism	4
PHYS	306	Modern Physics	3
PHYS	338*	Science and Conscience (ENGL)	3
PHYS	344*	Energy and Society (CHEM)	3

Other Courses in GE Categories A-E	27
Electives in Any Discipline	9

Bachelor of Science Degree in Applied Physics with an Emphasis in Physical Sciences - (120 units)

Lower Division Requirements - 35-36 units

CHEM	105*	Introduction to Chemistry	3
CHEM	121	General Chemistry	4
MATH	150*	Calculus I	4
MATH	151	Calculus II	4
MATH	250	Calculus III	3
PHYS	106*	Applied Physics and Modern Society	3
PHYS	200*	General Physics I	4
PHYS	201*	General Physics II	4

and

Select either:

PHYS	208*	Physics of Art and Visual Perception (ART)	3
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or

PHSC	170*	Foundations in Physical Science	4
		<i>(Required for teachers)</i>	

and

Select either:

BIOL	100*	Exploring the Living World	4
BIOL	200	Principles of Organismal and Population Biology	4

or

BIOL	170*	Foundations of Life Science	4
		<i>(Required for teachers)</i>	

BIOL	201	Principles of Cell and Molecular Biology	4
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and

Select either:

COMP	102*	Web Development or above	3
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or

PHYS	434*	Introduction to Biomedical Imaging	3
		(BIOL/HLTH)	4
PHYS	448	Team-Based Research	3
PHYS	499	Senior Colloquium	1
and			
<i>Select 3 units taken from the following (any combination)</i>			
PHYS	492	Internship	3
		(Required for teachers)	
PHYS	494	Independent Research	1-3
PHYS	497	Directed Studies	1-3
Electives in the Major - 15-16 units			
<i>Chosen with advisor's approval</i>			
EDUC	330#	Teaching in Secondary Schools	3
MATH	240	Linear Algebra	3
MATH	350	Differential Equations and Dynamical Systems	3
MATH	352	Probability and Statistics	3
MATH	448	Scientific Computing	3
MATH	450	Partial Differential Equations and	
		Mathematical Physics	3
MATH	451	Complex Analysis	3
PHYS	310	Electronics	4
PHYS	335*	Physics of Music (PAMU).....	3
PHYS	345*	Digital Image Processing (COMP/MATH)	3
PHYS	436*	Physics of the Performing Arts (PA)	3
PHYS	445	Image Analysis and Pattern Recognition (COMP/MATH)	3
PHYS	464	Medical Instrumentation (BIOL)	4
PHYS	490	Topics in Physics	3
PHYS	492	Internship	3
		(if not taken as a required course)	
† Cannot exceed a total of 3 units, when added to units taken within the upper division requirements			
# Recommended for Teachers (Courses with * are double-counted toward GE credits)			
PHYS	494†	Independent Research	1-3
PHYS	497†	Directed Studies	1-3
COMP	105*	Computer Programming Introduction	3
Upper Division Requirements - 27 units			
MGT	325	Entrepreneurial Management	3
MATH	350	Differential Equations and Dynamical Systems	3
PHYS	304	Electromagnetism	4
PHYS	306	Modern Physics	3
PHYS	338*	Science and Conscience (ENGL)	3
PHYS	344*	Energy and Society (CHEM)	3
PHYS	434*	Introduction to Biomedical Imaging	
		(BIOL/HLTH)	4
PHYS	448	Team-Based Research	3
PHYS	499	Senior Colloquium	1
and			
<i>Select 3 units taken from the following (any combination)</i>			
PHYS	492	Internship	3
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PHYS	494	Independent Research	1-3
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Electives in the Major - 15-16 units			
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PHYS	464	Medical Instrumentation (BIOL)	4

Required Supporting and Other GE Courses

42 units

American Institutions Requirement.....	6
Other courses in GE categories A-E	27
Electives in Any Discipline	9

Note: Courses with an asterisk (*) will double count with general education (GE) requirements. Only two upper division interdisciplinary GE major courses (numbered 330-~~2~~49 and 440-449 may be used towards the upper division major GE requirement. The third course must come from outside the major.

Minor in Applied Physics - (25 units)

Applied physics focuses on the hi-tech applications of physics, and on developing technological skills. It applies a thorough analytic understanding of the principles to the complexities of real applications at the frontiers of science and technology, e.g. in imaging and computer vision, electronic instrumentation, and biomedical engineering. The Applied Physics Minor will equip you with the solid cross-disciplinary background that is highly valued by industry and academia.

Careers

The program gives you the opportunity to explore selected area(s) in greater depth, thus providing you with the depth and flexibility to explore a wide variety of career opportunities, including graduate study, medical school, teaching, imaging science, instrumentation, investments and technical management.

Faculty

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PHYS	490	Topics in Physics	3
PHYS	492	Internship	3
(if not taken as a required course)			

† Cannot exceed a total of **3** units, when added to units

taken within the upper division requirements

Recommended for Teachers (Courses with * are double-counted toward GE credits)

PHYS	494†	Independent Research	1-3
PHYS	497†	Directed Studies	1-3

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42 units

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Other courses in GE categories A-E	27
Electives in Any Discipline	9

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Contact Information<http://appliedphysics.csuci.edu>**Lower Division Requirements - 12 units**

MATH	150*	Calculus I	4
PHYS	200*	General Physics I	4
PHYS	201	General Physics II	4

Upper Division Requirements - 13 units**1. Applied Physics - 10-11 units**

PHYS	345*	Digital Image Processing (MATH/COMP)	3
PHYS	434*	Introduction to Biomedical Imaging (BIOL/HLTH)	4

Select either:

PHYS	445	Image Analysis and Pattern Recognition (MATH/COMP)	3
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or

PHYS	464	Medical Instrumentation (BIOL)	4
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2. Applied Physics Electives - 2-3 units*Choose from:*

PHYS	490	Topics in Physics	3
PHYS	492	Internship	3
PHYS	494	Independent Research	1-3
PHYS	497	Directed Studies	1-3
PHYS	499	Senior Colloquium	1

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PHYS	200*	General Physics I	4
PHYS	201	General Physics II	4

Upper Division Requirements - 13 units**1. Applied Physics - 10-11 units**

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PHYS	434*	Introduction to Biomedical Imaging (BIOL/HLTH)	4

Select either:

PHYS	445	Image Analysis and Pattern Recognition (MATH/COMP)	3
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or

PHYS	464	Medical Instrumentation (BIOL)	4
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PHYS	492	Internship	3
PHYS	494	Independent Research	1-3
PHYS	497	Directed Studies	1-3
PHYS	499	Senior Colloquium	1

10/01/2012

Proposer of Program Modification

Date

APPROVAL SHEET

Program: Math and Applied Physics

If your course has a General Education Component or involves Center affiliation, the Center will also sign off during the approval process.

Multiple Chair fields are available for cross-listed courses.

The CI program review process includes a report from the respective department/program on its progress toward accessibility requirement compliance. By signing below, I acknowledge the importance of incorporating accessibility in course design.

Program Chair		
	Signature	Date

Curriculum Chair		
	Signature	Date

AVP		
	Signature	Date