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| For Academic Affairs and Research Use Only |
| Proposal Number: |  |
| CIP Code:  |  |
| Degree Code: |  |

 **Course Deletion Proposal Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

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| John Hershberger 10/20/2020 | Enter date |

**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| William Burns | 9/30/2020 |

**Department Chair** |

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**Head of Unit (if applicable)**   |
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| John Hershberger 10/20/2020 | Enter date |

**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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| Lynn Boyd | 10/26/2020 |

**College Dean** |

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**Graduate Curriculum Committee Chair** |
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| David Harding | 4/26/2021 |

**General Education Committee Chair (if applicable)**   |

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| Alan Utter | 4/27/2021 |

**Vice Chancellor for Academic Affairs** |

1. **Course Title, Prefix and Number**

Fundamental Physics I Laboratory, Phys 2071

1. **Contact Person** (Name, Email Address, Phone Number)

William Burns, wburns@astate.edu , 972-3086

1. **Justification**

Course has not been offered in more than 14 years.

1. **Last semester course will be offered**

Pre Fall 2006

1. **Yes / No Does this course appear in your curriculum? (if yes, and this deletion changes the curriculum, a Program Modification Form is required)**

No .

1. **Yes / No Is this course dual-listed (undergraduate/graduate)?**

No

1. **Yes / No Is this course cross-listed with a course in another department?**

If yes, which course(s)?

 No

1. **Yes / No Is there currently a course listed in the Bulletin or Banner which is a one-to-one equivalent to this course (please check with the Registrar’s Office if unsure)?**

If yes, which course?

No

**Bulletin Changes**

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| **Instructions**  |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Please include a before (with changed areas highlighted) and after of all affected sections.** **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.**  |

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**GENERAL EDUCATION CURRICULUM**

**FOR ASSOCIATE OF APPLIED SCIENCE DEGREES**

|  |  |
| --- | --- |
| **Composition:** | **Required Credit Hrs.** |
| ENG 1003, Composition I ENG 1013, Composition II | 6 |
| **Natural Sciences and Mathematics:***MATH 1043 - Quantitative Reasoning will satisfy the math requirement unless otherwise noted in the"General Education Requirements" section of a degree plan.* | **Required Credit Hrs.** |
| MATH 1043, Quantitative Reasoning MATH 1023, College AlgebraAny MATH course that requires MATH 1023 as a prerequisite. | 3 |
| **Select one of the following:**BIOL 1003 **AND** 1001, Biological Science and Laboratory BIOL 1033 **AND** 1001, Biology of Sex and LaboratoryBIOL 1063 **AND** 1001, People & Environment and Laboratory BIO 1503 **AND** 1501, Biology of Plants and LaboratoryBIO 2013 **AND** 2011, Biology of the Cell and LaboratoryBIO 2103 **AND** 2101, Microbiology for Nursing and Allied Health and Laboratory BIO 2203 **AND** 2201, Human Anatomy and Physiology I and LaboratoryCHEM 1013 **AND** 1011, General Chemistry I and LaboratoryCHEM 1043 **AND** 1041, Fundamental Concepts of Chemistry and Laboratory GEOL 1003 **AND** 1001, Environmental Geology and LaboratoryPHSC 1014, Energy and the EnvironmentPHSC 1203 **AND** 1201, Physical Science and LaboratoryPHYS 1103 **AND** 1101, Introduction to Space Science and Laboratory PHYS 2034, University Physics IPHYS 2054, General Physics I~~PHYS 2073~~ **~~AND~~** ~~2071, Fundamental Physics and Laboratory~~ | 4 |
| **Social Sciences:** | **Required Credit Hrs.** |
| **Select one of the following:**HIST 2763, The United States To 1876 HIST 2773, The United States Since 1876POSC 2103, Introduction to United States Government | 3 |
| **Computer Applications/Fundamentals:** | **Required Credit Hrs.** |
| **Select one of the following:**CIT 1503, Microcomputer Applications CS 1013, Introduction to Computers | 3 |
| **Total Required Hours:** | **19** |

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**GENERAL EDUCATION CURRICULUM**

**FOR ASSOCIATE OF GENERAL STUDIES DEGREES**

|  |  |
| --- | --- |
| **Composition:** | **Required Credit Hrs.** |
| ENG 1003, Composition I ENG 1013, Composition II | 6 |
| **Natural Sciences and Mathematics:***MATH 1043 - Quantitative Reasoning will satisfy the math requirement unless otherwise noted in the"General Education Requirements" section of a degree plan.* | **Required Credit Hrs.** |
| MATH 1043, Quantitative Reasoning MATH 1023, College AlgebraAny MATH course that requires MATH 1023 as a prerequisite. | 3 |
| **Select one of the following:**BIOL 1003 **AND** 1001, Biological Science and Laboratory BIOL 1033 **AND** 1001, Biology of Sex and LaboratoryBIOL 1063 **AND** 1001, People & Environment and Laboratory BIO 1503 **AND** 1501, Biology of Plants and LaboratoryBIO 2013 **AND** 2011, Biology of the Cell and LaboratoryBIO 2103 **AND** 2101, Microbiology for Nursing and Allied Health and Laboratory BIO 2203 **AND** 2201, Human Anatomy and Physiology I and LaboratoryCHEM 1013 **AND** 1011, General Chemistry I and LaboratoryCHEM 1043 **AND** 1041, Fundamental Concepts of Chemistry and Laboratory GEOL 1003 **AND** 1001, Environmental Geology and LaboratoryPHSC 1014, Energy and the EnvironmentPHSC 1203 **AND** 1201, Physical Science and LaboratoryPHYS 1103 **AND** 1101, Introduction to Space Science and Laboratory PHYS 2034, University Physics IPHYS 2054, General Physics I~~PHYS 2073~~ **~~AND~~** ~~2071, Fundamental Physics and Laboratory~~ | 4 |
| **Arts and Humanities:** | **Required Credit Hrs.** |
| **Select one of the following:**ART 2503, Fine Arts-VisualENG 2003, World Literature to 1660ENG 2013, World Literature Since 1660 MUS 2503, Fine Arts-MusicPHIL 1103, Introduction to Philosophy THEA 2503, Fine Arts-Theatre | 3 |
| **Social Sciences:***One course must be selected from HIST 2763, HIST 2773 or POSC 2103* | **Required Credit Hrs.** |
| ANTH 2233, Introduction to Cultural Anthropology HIST 2763, United States History to 1876 CMAC 1003, Mass Communications in Modern Society HIST 2773, United States History since 1876 ECON 2313, Principles of Macroeconomics POSC 1003, Introduction to PoliticsECON 2333, Economic Issues & Concepts POSC 2103, Introduction to US Government GEOG 2613, Introduction to Geography PSY 2013, Introduction to PsychologyHIST 1013, World History to 1500 SOC 2213, Introduction to Sociology HIST 1023, World History since 1500 | 9 |
| **Total Required Hours:** | **25** |

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Major in Computer Science

Bachelor of Science

A complete 8-semester degree plan is available at [https://www.astate.edu/info/academics/degrees/](http://www.astate.edu/info/academics/degrees/)

|  |  |
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| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42) |  |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| CS 1093, Making Connections - Computer Science | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)**Students with this major must take the following:***MATH 2204, Calculus I**PHYS 2034, University Physics I* ***~~OR~~****~~PHYS 2073~~* ***~~AND~~*** *~~2071, Fundamental Physics and Laboratory~~ ECON 2313, Principles of Macroeconomics* ***OR****ECON 2333, Economic Issues & Concepts**COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* | **36** |
| **Major Requirements:** | **Sem. Hrs.** |
| CHEM 1013 **AND** CHEM 1011, General Chemistry I and Laboratory | 4 |
| CS 2114, Structured Programming | 4 |
| CS 2124, OOP and Fundamental Data Structures | 4 |
| CS 3113, Algorithms and Advanced Data Structures | 3 |
| CS 3123, Programming Languages | 3 |
| CS 3223, Computer Organization | 3 |
| CS 3233, Operating Systems | 3 |
| CS 4113, Software Engineering | 3 |
| CS 4143, Java and Application Development | 3 |
| CS 4543, Database Systems | 3 |
| CS 4713, Analysis of Algorithms | 3 |
| EE 3333 **AND** EE 3331, Digital Electronics I and Laboratory | 4 |
| ENG 3043, Technical Writing | 3 |
| MATH 2183, Discrete Structures | 3 |
| MATH 2214, Calculus II | 4 |
| MATH 3243, Linear Algebra | 3 |
| PHIL 3723, Computers, Ethics, and Society | 3 |
| PHYS 2044, University Physics II **OR**PHYS 2083 **AND** 2081, Fundamental Physics II and Laboratory | 4 |
| STAT 3233, Applied Statistics I | 3 |
| Upper-level Computer Science Electives*MATH 4533 may be used to satisfy this requirement* | 12 |
| **Sub-total** | **75** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **6** |
| **Total Required Hours:** | **120** |

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PHYS 2054. General Physics I The essential of mechanics, heat, materials and simple harmonic motion in a unified lecture and laboratory format utilizing multimedia computers at each student station. Six hours per week. This course will meet the General Education Program requirements for physical science. PHYS 2034 may be substituted. Special course fees may apply. Special course fees may apply. Prerequisite, MATH 1033 or higher. Fall, Spring, Summer. (ACTS#: PHYS 2014)

PHYS 2064. General Physics II Continuation of PHYS 2054, the essentials of electricity, mag- netism, wave motion, light and modern physics in a unified lecture and laboratory format utilizing multimedia computers at each student station. Six hours per week. PHYS 2044 may be substituted for this course. Special course fees may apply. Prerequisite, PHYS 2054 or 2034. Fall, Spring, Summer. (ACTS#: PHYS 2024)

~~PHYS 2071. Fundamental Physics I Laboratory Two hours per week. Special course fees may apply. Credit for this course is contingent upon earlier or simultaneous completion of PHYS 2073. Irregular.~~

PHYS 2073. Fundamental Physics I Basic principles of mechanics, special relativity, thermo- dynamics, and wave motion utilizing calculus. Lecture three hours per week. Special course fees may apply. Students enrolling in this course should enroll in Laboratory for Fundamental Physics

I. Corequisite, MATH 2204. Irregular.

PHYS 2081. Fundamental Physics II Laboratory Two hours per week. Special course fees may apply. Prerequisites, PHYS 2071 and 2073. Credit for this course is contingent upon earlier or simultaneous completion of PHYS 2083. Irregular.

PHYS 2083. Fundamental Physics II Continuation of PHYS 2073. Covering electricity, magnetism, optics, and modern physics. Lecture three hours per week. Special course fees may apply. Students enrolling in this course should enroll in Laboratory for Fundamental Physics II. Corequisite, MATH 2214. Prerequisites, PHYS 2071 and 2073. Irregular.

PHYS 2133. Survey of Physics for the Health Professions Asurveyforintroductorymechan- ics, waves, electricity, magnetism, optics and modern physics with applications for students of the health professions. Special course fees may apply. Fall.

PHYS 2393. Special Topics Selected special or current topics of interest to faculty and students that require no prerequisite courses. This course is appropriate for a general student audience. See individual semester schedules for more information about each offering. Irregular.

PHYS 3043. Atmospheric Dynamics A study of the physical dynamics of the atmosphere and the oceans and the interactions between the two. Topics to be discussed include basic atmospheric and geophysical fluid dynamics,An integrated laboratory component will have students build analyze the local atmosphere. Prerequisite, PHYS 2034 or 2054. Spring.

PHYS 3052. Relativity Quantitative introduction to the special theory of relativity with a brief qualitative introduction to general relativity. Special course fees may apply. Prerequisites, PHYS 2044 or 2064 or PHYS 2081 and 2083. Irregular.

PHYS 3103. Thermal Physics The first and second laws of thermodynamics, the kinetic theory of gases, and an introduction to statistical mechanics. Lecture three hours per week. Special course fees may apply. Corequisite, MATH 3254. Prerequisites, PHYS 2044 or 2064. Spring, even.

PHYS 3133. Astronomy Theories of the origin, development, present state, and future of the universe, with special emphasis on the place of astronomy in mans cultural and scientific develop- ment. Special course fees may apply. Irregular.

PHYS 3153. Mechanics Particle dynamics in inertial and accelerated reference frames. Newtons law of gravitation, orbit theory, and elementary rigid body dynamics. Lecture three hours per week. Special course fees may apply. Prerequisites, MATH 2214 and PHYS 2044. Fall.

PHYS 3203. Electromagnetic Theory Electrostatics, electric and magnetic properties of materi- als. Amperes and Faradays laws, and Maxwells equations. Lecture three hours per week. Special course fees may apply. Prerequisites, MATH 3254 and PHYS 2044. Spring.