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

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**Vice Chancellor for Academic Affairs** |

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

Fundamental Physics II Laboratory, Phys 2081

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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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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PHIL 4773. Defining Race Biological, constructivist, and denial theories of race and their moral and political ramifications for racism, affirmative action, and hate crime legislation. Prerequisite, PHIL 1103. Spring, odd.

PHIL 480V. Readings in Philosophy Independent readings for advanced students only. Must have consent of department chair. May be repeated for a maximum of 6 hours credit. Fall, Spring.

PHIL 4883. Special Topics in Philosophy Advanced study of selected topics in philosophy. Content will vary. May be repeated for a maximum of 9 hours credit. Prerequisite, 9 hours of philosophy. Fall.

PHIL 4883. Special Topics in Philosophy Advanced study of selected topics in philosophy. Content will vary. May be repeated for a maximum of 9 hours credit. Prerequisite, 9 hours of philosophy. Fall.

# Physical Science (PHSC)

PHSC 1003. Making Connections Chemistry and Physics Required course for first semes- ter freshmen. Core content includes transition to college, academic performance skills, problem solving, critical thinking, self management, group building skills, and university policies. Content related to the departmental majors is also included. Fall.

PHSC 1014. Energy and the Environment A hybrid lecture and lab course that studies energy. What it is, how it is produced and used, and its effect on the environment. Special atten- tion will be paid to individual energy usage and economical methods by which to reduce usage. Prerequisite, MATH 0013 or ACT Mathematics core of 16. Fall, Spring.

PHSC 1201. Physical Science Laboratory Two hours per week. Special course fees may apply. Corequisite, PHSC 1203. Fall, Spring, Summer. (ACTS#: PHSC 1004)

PHSC 1203. Physical Science The relationship of man to his physical world, content of the course is centered on the development of our modern concepts about matter and energy and how this development is related to the social order of which man is a part. Lecture three hours. This course does not satisfy science certification for secondary school teachers. It is not accepted as a major requirement in any natural science field. Special course fees may apply. Corequisite, PHSC 1201. Prerequisite, MATH 0013 or ACT Mathematics score of 16. Fall, Spring, Summer. (ACTS#: PHSC 1004)

# Physics (PHYS)

PHYS 1101. Introduction to Space Science Laboratory Two hours per week. Special course fees may apply. Corequisite, PHYS 1103. Fall, Spring. (ACTS#: PHSC 1204)

PHYS 1103. Introduction to Space Science A survey of the basic principles of science with emphasis on physics through their application to study about our place in the cosmos. Lecture three hours. Corequisite, PHYS 1101. Special course fees may apply. Prerequisite, MATH 0013 or ACT Math score of 16. Fall, Spring. (ACTS#: PHSC 1204)

PHYS 2034. University Physics I Basic principles of mechanics, thermodynamics, materials and wave motion utilizing calculus with multimedia computers, at each station, in a unified lecture and lab format. 6 hours per week. Special course fees may apply. This course may be substituted for PHYS 2054. This course will meet the General Education Requirements for Physical Science. Corequisite, MATH 2204. Fall, Spring. (ACTS#: PHYS 2034)

PHYS 2044. University Physics II Continuation of PHYS 2034 covering the basic principles of electricity, magnetism, waves, optics and topics from modern physics utilizing calculus with mul- timedia computers, at each station, in a unified lecture and lab format. 6 hours per week. Special course fees may apply. Special course fees may apply. Prerequisite, Physics 2034 or 2054. This course may be substituted for PHYS 2064 ~~or for PHYS 2083 and 2081~~. Corequisite, MATH 2214. Fall, Spring. (ACTS#: PHYS 2044)

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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.