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| S:\Communications\Logos and photos\SDBORLogos\final_sdbor_webreadyBW_trans.gif | **SOUTH DAKOTA BOARD OF REGENTS**  ACADEMIC AFFAIRS FORMS |
| Minor Program Modification |
|  |  |

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations). The university Vice President for Academic Affairs approves minor program modifications and they are included in the Annual Minor Program Modification Summary form.

|  |  |
| --- | --- |
| **UNIVERSITY:** | DSU |
| **PROGRAM TITLE:** | **BS in Analytical Science** |
| **CIP CODE:** | **40.0101** |
| **UNIVERSITY DEPARTMENT:** | **College of Arts and Science** |
| **UNIVERSITY DIVISION:** | **College of Arts and Science** |

**University Approval**

*To the Board of Regents and the Executive Director: I certify that I have read this proposal, that I believe it to be accurate, and that it has been evaluated and approved as provided by university policy.*

|  |  |  |
| --- | --- | --- |
|  |  | 3/30/2021 |
| Vice President of Academic Affairs or President of the University |  | Date |

|  |
| --- |
|  |

1. **This modification addresses a change in (*place an “X” in the appropriate box*):**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Course *deletions* that do not change the nature of the program, or distribution of courses in the program, or change of total credit hours required |  | Course *additions* that do not change the nature of the program, or distribution of courses in the program, or change of total credit hours required |
|  | Revised courses in the program. |  |  |

1. **Effective date of change: 5/10/2021**
2. **Program Degree Level (*place an “X” in the appropriate box*):**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Associate |  | Bachelor’s |  | Master’s |  | Doctoral |  |

1. **Category (*place an “X” in the appropriate box*):**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Certificate |  | Specialization |  | Minor |  | Major |  |

1. **Primary Aspects of the Modification (*add lines or adjust cell size as needed*):**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Existing Curriculum* | | | | *Proposed Curriculum (highlight changes)* | | | | | |
| **Pref.** | **Num.** | **Title** | **Cr.**  **Hrs.** | |  | **Pref.** | **Num.** | **Title** | **Cr. Hrs** |
| **System General Education** | | | **30** | |  | **System General Education** | | | **30** |
| Majors must take CHEM 112, MATH 123 and PHYS 211 as part of the System-wide General Education Requirements. | | | | |  | Majors must take CHEM 112, MATH 123 and PHYS 111 or PHYS 211 as part of the System-wide General Education Requirements. | | | |
| **Science Component** | | | **20** | |  | **Science Component** | | | **20** |
| CHEM | 114 | General Chemistry II | 4 | |  | CHEM | 114 | General Chemistry II | 4 |
| CHEM | 114L | General Chemistry II Lab | 0 | |  | CHEM | 114L | General Chemistry II Lab | 0 |
| ENGL | 379 | Technical Communication | 3 | |  | ENGL | 379 | Technical Communication | 3 |
|  |  |  |  | |  | PHYS | 113 | Introduction to Physics II | 4 |
|  |  |  |  | |  | PHYS | 113L | Introduction to Physics II Lab | 0 |
|  |  |  |  | |  |  |  | OR |  |
| PHYS | 213 | University Physics II | 4 | |  | PHYS | 213 | University Physics II |  |
| PHYS | 213L | University Physics II Lab | 0 | |  | PHYS | 213L | University Physics II Lab |  |
| Select 9 credits from the following: | | | 9 | |  | Select 9 credits from the following: | | | 9 |
| No changes are being made to the list | | |  | |  | No changes are being made to the list | | |  |
|  |  |  |  | |  |  |  |  |  |
| **Mathematics Component** | | | **16** | |  | **Mathematics Component** | | | **16** |
| **Computer Science Component** | | | **15** | |  | **Computer Science Component** | | | **15** |
| **Research/Scholarship Component** | | | **3** | |  | **Research/Scholarship Component** | | | **3** |
| **Electives** | | | **21** | |  | **Electives** | | | **21** |
|  |  | Total Hours Required | 120 | |  |  |  | Total Hours Required | 120 |

1. **Explanation of the Change:**

PHYS211-213 sequence is a 2-semester calculus-based curriculum designed primarily for engineering and physics majors. PHYS111-113 sequence is an algebra-based curriculum appropriate for students focused on professional degrees in medicine, veterinary science, physical therapy, and pharmacology. Both sequences cover the same content and subject matter with differing mathematical depth. Taken either sequence is appropriate for analytical science majors since either PHYS113 or PHYS213 fulfill the prerequisite for upper-level PHYS coursework.