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

**Program Modification Form**

**[ ] Undergraduate Curriculum Council**

**[X] Graduate Council**

|  |
| --- |
| **Modification Type: [ ]Admissions, [ ]Curricular Sequence, or [X]Other** |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Hai Jiang | 10/23/2021 |   **Department Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **COPE Chair (if applicable)** |
| |  |  | | --- | --- | | Christos Grecos | 10/28/2021 |   **Department Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Head of Unit (if applicable)** |
| |  |  | | --- | --- | | Brandon A. Kemp | 11/3/2021 |   **College Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Undergraduate Curriculum Council Chair** |
| |  |  | | --- | --- | | Abhijit Bhattacharyya | 11/5/2021 |   **College Dean** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (if applicable)** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Vice Chancellor for Academic Affairs** |

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

Hai Jiang, [hjiang@astate.edu](mailto:hjiang@astate.edu), 8164

1. **Proposed Change** (for undergraduate curricular changes please provide an 8-semester plan (appendix A), if applicable)

Addition of a new Core course option and elimination of a redundant elective course in Cyber Security emphasis in Computer Science master’s degree.

1. **Effective Date**

1/1/2021

1. **Justification –** *Please provide details as to why this change is necessary.*

A new Core course option (CS 6353) is added.

In addition, a redundant elective course option (CS 6123) is removed as the same course has been used as a Core course.

**Bulletin Changes**

|  |
| --- |
| **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.** |

*2021-2022 Graduate Bulletin*

Page 179 Before:

**Computer Science**

**Master of Science**

**Emphasis in Cyber Security**

|  |  |
| --- | --- |
| **University Requirements:** |  |
| See Graduate Degree Policies for additional information (p. 47) |  |
| **Program Requirements:**  Minimum of eighteen hours of 6000 level Computer Science and approved Mathematics and/or  Statistics coursework inclusive of thesis. Students completing the MS non-thesis option must pass  a comprehensive exam in the last semester of study. | **Sem. Hrs.** |
| **Theory:**  CS 5133, Compiler **OR**  CS 5723, Automata Theory | 3 |
| **Systems:**  CS 5313, Computer Networks  CS 6213, Parallel Processing  CS 6243, Distributed Systems  CS 6253, Heterogeneous Computing | 3 |
| **Algorithms:**  CS 5713, Analysis of Algorithms | 3 |
| **Sub-total** | **9** |
| **Emphasis Area (Cyber Security):** | **Sem. Hrs.** |
| **Core (select three of the following):**  CS 6123, Software Security  CS 6313, Data Security  CS 6323, Computer Security  CS 6333, Network and Internet Security  ***CS 6353, Hardware Security*** | 9 |
| **Emphasis Elective (select one of the following** or above untaken Core course**):**  ~~CS 6123, Software Security~~  CS 6343, Cloud Security  LAW 6033, Cyberlaw and E-Commerce | 3 |
| CS Electives | 6 |
| CS, MATH, and/or STAT Electives, | 6 |
| Subject to the prior approval of the Computer Science Curriculum Committee. |  |
| **Sub-total** | **24** |
| **Total Required Hours:** | **33** |

Page 179 After:

**Computer Science**

**Master of Science**

**Emphasis in Cyber Security**

|  |  |
| --- | --- |
| **University Requirements:** |  |
| See Graduate Degree Policies for additional information (p. 47) |  |
| **Program Requirements:**  Minimum of eighteen hours of 6000 level Computer Science and approved Mathematics and/or  Statistics coursework inclusive of thesis. Students completing the MS non-thesis option must pass  a comprehensive exam in the last semester of study. | **Sem. Hrs.** |
| **Theory:**  CS 5133, Compiler **OR**  CS 5723, Automata Theory | 3 |
| **Systems:**  CS 5313, Computer Networks  CS 6213, Parallel Processing  CS 6243, Distributed Systems  CS 6253, Heterogeneous Computing | 3 |
| **Algorithms:**  CS 5713, Analysis of Algorithms | 3 |
| **Sub-total** | **9** |
| **Emphasis Area (Cyber Security):** | **Sem. Hrs.** |
| **Core (select three of the following):**  CS 6123, Software Security  CS 6313, Data Security  CS 6323, Computer Security  CS 6333, Network and Internet Security  CS 6353, Hardware Security | 9 |
| **Emphasis Elective (select one of the following or above untaken Core course):**  CS 6123, Software Security  CS 6343, Cloud Security  LAW 6033, Cyberlaw and E-Commerce | 3 |
| CS Electives | 6 |
| CS, MATH, and/or STAT Electives, | 6 |
| Subject to the prior approval of the Computer Science Curriculum Committee. |  |
| **Sub-total** | **24** |
| **Total Required Hours:** | **33** |