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

**Bulletin / Banner Change Transmittal Form**

**[ ] Undergraduate Curriculum Council**

**[X] Graduate Council**

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

Email completed proposals to curriculum@astate.edu for inclusion in curriculum committee agenda.

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| Jeff Jenness | 11/5/2019 |

**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| Hung-Chi Su | 11/5/2019 |

**Department Chair:**  |

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**Head of Unit (If applicable)**   |
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| Brandon Kemp | 11/8/2019 |

**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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| Abhijit Bhattacharyya 11/8/2019 |   |

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

Hung-Chi Su, suh@astate.edu, 8119

**2.Proposed Change**

Addition of options to emphasis areas in master’s degrees

**3.Effective Date**

1/1/2020

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

The options for the requirements of the emphasis areas in Computer Science master’s degrees are being increased to address scheduling problems many students face due to the two-year rotation of many courses offered by the department.

**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. Follow the following guidelines for indicating necessary changes.** **\*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.** - Deleted courses/credit hours should be marked with a red strike-through (~~red strikethrough~~)- New credit hours and text changes should be listed in blue using enlarged font (blue using enlarged font). - Any new courses should be listed in blue bold italics using enlarged font (***blue bold italics using enlarged font***)*You can easily apply any of these changes by selecting the example text in the instructions above, double-clicking the ‘format painter’ icon 🡪 , and selecting the text you would like to apply the change to.**Please visit* [*https://youtu.be/yjdL2n4lZm4*](https://youtu.be/yjdL2n4lZm4) *for more detailed instructions.* |

**page 158**

Emphasis Area (Cyber Security): Sem. Hrs.

 ~~CS 6313, Data Security 3~~

 ~~CS 6323, Computer Security 3~~

 ~~CS 6333, Network and Internet Security 3~~

 Core (select three of the following): 9

 CS 6123, Software Security

 CS 6313, Data Security

 CS 6323, Computer Security

 CS 6333, Network and Internet Security

 Emphasis Elective (select one of the following): 3

 CS 6123, Software Security

 CS 6343, Cloud Security

 LAW 6033, Cyberlaw and E-Commerce

 CS Electives 6

 CS, MATH, and/or STAT Electives, 6

 Subject to the prior approval of the Computer Science Curriculum Committee.

Sub-total 24

**page 159**

Emphasis Area (Data Science): Sem. Hrs.

 ~~CS 5543, Database Systems 3~~

 ~~CS 5623, Fundamentals of Data Science 3~~

 ~~CS 6523, Data Mining Techniques 3~~

 Core (select three of the following): 9

 CS 5543, Database Systems

 CS 5623, Fundamentals of Data Science

 CS 6443, Machine Learning

 CS 6523, Data Mining Techniques

 Emphasis Elective (select one of the following): 3

 CS 6443, Machine Learning

 CS 6543, Advanced Database Systems

 STAT 6433, Time Series Analysis

 STAT 6643, Multivariate Analysis

 STAT 6653, Data Analysis I: Regression Analysis

 STAT 6663, Data Analysis II: Analysis of Variance

 CS Electives 6

 CS, MATH, and/or STAT Electives, 6

 Subject to the prior approval of the Computer Science Curriculum Committee.

Sub-total 24

**page 160**

Emphasis Area (High Performance Computing): Sem. Hrs.

 ~~CS 6213, Parallel Processing 3~~

 ~~CS 6243, Distributed Systems 3~~

 ~~CS 6253, Heterogeneous Computing 3~~

 Core (select three of the following): 9

 CS 6213, Parallel Processing

 CS 6243, Distributed Systems

 CS 6253, Heterogeneous Computing

 CS 6263, Cloud Computing

 Emphasis Elective (select one of the following): 3

 CS 5223, Unix Systems Programming

 CS 6223, Advanced Computer Architecture

 CS 6233, Operating System Design

 CS 6263, Cloud Computing

 CS Electives 6

 CS, MATH, and/or STAT Electives, 6

 Subject to the prior approval of the Computer Science Curriculum Committee.

Sub-total 24