**PLAN OF STUDY**

M.S. IN COMPUTER SCIENCE, 2020-2021 CATALOG

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

STUDENT NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

STUDENT I.D.: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CURRENT CUMULATIVE GPA: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
EXPECTED GRADUATION TERM: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CONCENTRATION[[1]](#footnote-1)
(*Academic, Bioinformatics, Data Science, or Professional*): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Graduate Transfer Credit**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Institution* | *Course* | *Term taken, grade received* | *Credits* | *ISU Course #* |
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*Transfer credit approved*? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Transfer credit form submitted?* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Academic Concentration**

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| --- | --- | --- | --- | --- | --- |
| *Requirement* | *Course #[[2]](#footnote-2)* | *Credits* | *Semester* | *Grade[[3]](#footnote-3)* | *Comment* |
| *Programming fundamentals* | CS 500 |  |  |  |  |
| *Algorithms 500 level* | CS 558 |  |  |  |  |
| *Algorithms 600 level* | CS 658 |  |  |  |  |
| *Systems 500 level* | CS 556 |  |  |  |  |
| *Systems 600 level* | CS 671 |  |  |  |  |
| *Culminating experience* | CS 695 |  |  |  |  |

**Bioinformatics Concentration**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *Requirement* | *Course #* | *Credits* | *Semester* | *Grade* | *Comment* |
| *Programming fundamentals* | CS 500 or CS 501 |  |  |  |  |
| *Mathematics* | CS 600 |  |  |  |  |
| *Database* | CS 557 or CS 617 |  |  |  |  |
| *Computational biology* | CS 618 |  |  |  |  |
| *Genomics* | BIO 581 |  |  |  |  |
| *Bioinformatics* | BIO 587 |  |  |  |  |
| *Genetics* | BIO 680 |  |  |  |  |
| *Culminating experience* |  |  |  |  |  |

**Data Science Concentration**

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| --- | --- | --- | --- | --- | --- |
| *Requirement* | *Course #* | *Credits* | *Semester* | *Grade* | *Comment* |
| *Programming I* | CS 501 |  |  |  |  |
| *Programming II* | CS 601 |  |  |  |  |
| *Modeling / Math* | MATH 503 |  |  |  |  |
| *Statistics* | MATH 540 |  |  |  |  |
| *Database* | CS 557 |  |  |  |  |
| *Data mining* | CS 617 |  |  |  |  |
| *Artificial intelligence* | CS 575 |  |  |  |  |
| *Culminating experience* |  |  |  |  |  |

**Professional Concentration**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *Requirement* | *Course #* | *Credits* | *Semester* | *Grade* | *Comment* |
| *Programming fundamentals* | CS 500 |  |  |  |  |
| *Programming for data science* | CS 501 |  |  |  |  |
| *Mathematics* | CS 600 |  |  |  |  |
| *Culminating experience* |  |  |  |  |  |
| *Interconnected computing course* |  |  |  |  |  |
| *Data management and analysis course* |  |  |  |  |  |
| *Additional concentration elective* |  |  |  |  |  |

**Elective Courses**[[4]](#footnote-4)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Course #* | *Credit Hours* | *Semester* | *Grade* | *Comment* |
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**Advisor Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SIGNATURE OF ADVISOR: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE: \_\_\_\_\_\_\_\_\_\_

1. For your chosen concentration, complete the appropriate section below. If you have any approved substitutions note this in the comment columns. [↑](#footnote-ref-1)
2. For any 500 level courses, if 400 level version taken at ISU, list that course # / grade / semester in the row for that requirement. [↑](#footnote-ref-2)
3. Include grades for courses that are already complete and have final grades posted. [↑](#footnote-ref-3)
4. Total # of credits for the degree is 33, and at least 18 credits must be from 600 level courses. [↑](#footnote-ref-4)