

| GE                       | Quarters | Units     | Course  | FALL | Wint | SPRIN | Summ | FALL | SPRIN | COEN       | CSCI     | BINF       | CSGI       | CSGL     | CSSA      |
|--------------------------|----------|-----------|---|------|------|-------|------|------|-------|------------|----------|------------|------------|----------|-----------|
|                          |          |           |   | 2020 | 2021 | 2021  | 2021 | 2021 | 2022  | R3-CSE-Eng | R3-C3I   | R3-BIO/INF | R3-General | R3-GAME  | R3-SP-ADM |
| <b>General Education</b> |          |           |   |      |      |       |      |      |       |            |          |            |            |          |           |
| A3                       | A3       | CSE 1100  | CSE 1100. Critical Thinking Through Computer Programming                | X    |      | X     |      | X    | X     |            |          |            |            |          |           |
| B3                       | B3       | CSE 1110I | CSE 1110I. Data Analysis Laboratory Using Spreadsheets                  | X    |      | X     |      | X    | X     |            |          |            |            |          |           |
| B3                       | B3       | CSE 1120I | CSE 1120I. Scientific Simulation  | X    |      |       |      |      |       |            |          |            |            |          |           |
|                          | 125      | CSE 1250  | CSE 1250. Programming Basics  | X    |      | X     |      | X    | X     |            |          |            |            |          |           |
| E                        | E        | CSE 1290  | CSE 1290. College Learning for Lives and Careers in the Information Age | X    |      |       |      | X    | X     |            |          |            |            |          |           |
| B4                       | B4       | CSE 1300  | CSE 1300. Introduction to Data Science                                  | X    |      | X     |      | X    | X     |            |          |            |            |          |           |
| B4                       | B4       | CSE 1300I | CSE 1300I. Introduction to Data Science Lab.                            | X    |      |       |      |      |       |            |          |            |            |          |           |
| <b>Lower-Division</b>    |          |           |   |      |      |       |      |      |       |            |          |            |            |          |           |
|                          | 201      | CSE 2010  | CSE 2010. Computer Science I  | X    |      | X     | X    | X    | X     | X          | X        | X          | X          | X        | X         |
|                          | 330      | CSE 2020  | CSE 2020. Computer Science II   | X    | X    | X     | X    | X    | X     | X          | X        | X          | X          | X        | X         |
|                          | 313      | CSE 2130  | CSE 2130. Machine Organization  | X    |      | X     | X    | X    | X     | X          | X        |            | X          | X        | X         |
| <b>Upper-Division</b>    |          |           |   |      |      |       |      |      |       |            |          |            |            |          |           |
|                          | 310      | CSE 3100  | CSE 3100. Digital Logic   | X    |      | X     | X    | X    | X     | X          | X        |            |            |          | X         |
|                          | 335      | CSE 3350  | CSE 3350. Signals and Systems   | X    |      | X     |      |      |       | X          |          |            |            |          |           |
|                          | 365      | CSE 3650  | CSE 3650. Systems Administration I                                      | X    |      |       |      | X    |       |            |          |            |            |          | X         |
|                          | 366      | CSE 3660  | CSE 3660. Systems Administration II                                     | X    |      |       |      | X    |       |            |          |            |            |          | X         |
|                          | 401      | CSE 4010  | CSE 4010. Contemporary Computer Architecture                            | X    | X    | X     | X    | X    | X     | X          | X        |            |            |          | X         |
|                          | 403      | CSE 4030  | CSE 4030. Analog Circuit Design and Analysis                            | X    |      | X     |      | X    |       | X          |          |            |            |          |           |
|                          | 405      | CSE 4050  | CSE 4050. Web Application Development                                   | X    |      |       |      | X    |       |            |          |            | X          | X        | X         |
| New                      | CSE 4100 | CSE 4100  | CSE 4100. Computer Networking and Security                              | X    |      | X     | X    | X    | X     | X          | X        |            |            |          |           |
|                          | 420      | CSE 4200  | CSE 4200. Computer Graphics   | X    |      | X     |      | X    |       |            |          |            |            |          | X         |
|                          | 431      | CSE 4310  | CSE 4310. Algorithm Analysis  | X    |      | X     | X    | X    | X     | X          | X        |            |            |          |           |
|                          | 440      | CSE 4400  | CSE 4400. Game Design   | X    |      |       |      | X    |       |            |          |            |            |          | X         |
|                          | 441      | CSE 4410  | CSE 4410. Game Programming  | X    |      |       |      | X    |       |            |          |            |            |          | X         |
| New                      | CSE 4500 | CSE 4500  | CSE 4500. Platform Computing  | X    |      | X     |      | X    |       |            |          |            | X          | X        | X         |
|                          | 455      | CSE 4550  | CSE 4550. Software Engineering  | X    |      | X     |      | X    | X     | X          |          |            | X          | X        | X         |
|                          | 456      | CSE 4560  | CSE 4560. Embedded Systems  | X    |      | X     | X    | X    | X     | X          |          |            |            |          |           |
|                          | 460      | CSE 4600  | CSE 4600. Operating Systems   | X    |      | X     |      | X    | X     | X          | X        |            |            |          | X         |
|                          | 461      | CSE 4610  | CSE 4610. Advanced Operating Systems                                    | X    |      |       |      | X    |       |            |          |            |            |          |           |
|                          | 482      | CSE 4820  | CSE 4820. Senior Project  | X    |      | X     |      | X    | X     |            |          |            |            |          |           |
|                          | 488      | CSE 4880  | CSE 4880. Ethics Senior Seminar   | X    |      | X     |      | X    | X     | X          | X        | X          | X          | X        | X         |
|                          | 500      | CSE 5000  | CSE 5000. Introduction to Formal Languages and Automata Theory          | X    |      | X     |      | X    |       |            |          |            |            |          |           |
|                          | 501      | CSE 5010  | CSE 5010. Introduction to Theory of Computation. Units: 3               | X    |      |       |      | X    |       |            |          |            |            |          |           |
|                          | 510      | CSE 5100  | CSE 5100. Advanced Computer Architecture                                | X    |      |       |      | X    |       |            |          |            |            |          |           |
|                          | 512      | CSE 5120  | CSE 5120. Introduction to Artificial Intelligence.                      | X    |      |       |      |      |       | X          |          |            |            |          |           |
|                          | 514      | CSE 5140  | CSE 5140. Computational Intelligence.                                   | X    |      |       |      |      | X     |            |          |            |            |          |           |
|                          | 515      | CSE 5150  | CSE 5150. Automated Reasoning   | X    |      |       |      |      |       |            |          |            |            |          |           |
|                          | 516      | CSE 5160  | CSE 5160. Machine Learning  | X    |      | X     | X    | X    |       |            | X        |            |            |          |           |
|                          | 520      | CSE 5200  | CSE 5200. Advanced Computer Graphics                                    | X    |      |       |      |      |       |            |          |            |            |          |           |
| New                      | CSE 5208 | CSE 5208  | CSE 5208. Introduction to Computer Engineering Design                   | X    |      |       |      | X    |       | X          |          |            |            |          |           |
|                          | 521      | CSE 5210  | CSE 5210. Digital System Design   | X    |      | X     |      | X    |       | X          |          |            |            |          |           |
|                          | 525      | CSE 5250  | CSE 5250. Parallel Algorithms and Programming.                          | X    |      |       |      | X    |       |            | X        |            |            |          |           |
|                          | 530      | CSE 5300  | CSE 5300. Data Communications   | X    |      |       |      |      |       |            |          |            |            |          |           |
|                          | 535      | CSE 5350  | CSE 5350. Numerical Computation   | X    |      | X     |      | X    |       | X          |          |            |            |          |           |
|                          | 408      | CSE 5408  | CSE 5408. Sustainable Engineering Design                                | X    |      | X     |      | X    |       | X          |          |            |            |          |           |
|                          | 541      | CSE 5410  | CSE 5410. Robotics and Control  | X    |      | ?     |      | X    |       | X          |          |            |            |          |           |
|                          | 550      | CSE 5500  | CSE 5500. Advanced Bioinformatics I: Sequence Analysis.                 | X    |      | X     |      | X    |       |            | X        |            |            |          |           |
|                          | 551      | CSE 5510  | CSE 5510. Advanced Bioinformatics II: Numerical Modeling                | X    |      |       |      | X    |       |            | X        |            |            |          |           |
|                          | 570      | CSE 5700  | CSE 5700. Compilers.  | X    |      |       |      | X    |       |            | X        |            |            |          |           |
|                          | 572      | CSE 5720  | CSE 5720. Database Systems  | X    |      | X     |      | X    |       |            | X        | X          |            |          | X         |
|                          | 575      | CSE 5750  | CSE 5750. Internship in Computer Science and Engineering.               | X    |      |       |      |      |       |            |          |            |            |          |           |
|                          | 580      | CSE 5800  | CSE 5800. Advanced Database Systems.                                    | X    |      |       |      |      |       |            |          |            |            |          |           |
|                          | 594      | CSE 5940  | CSE 5940. Topics in Computer Science and Engineering                    | X    |      | X     |      |      | X     |            |          |            |            |          |           |
|                          | 595A     | CSE 5951  | CSE 5951. Independent Study   | X    | X    | X     | X    | X    | X     |            |          |            |            |          |           |
|                          | 595B     | CSE 5952  | CSE 5952. Independent Study   | X    | X    | X     | X    | X    | X     |            |          |            |            |          |           |
|                          | 595C     | CSE 5953  | CSE 5953. Independent Study   | X    | X    | X     | X    | X    | X     |            |          |            |            |          |           |
|                          |          |           |   |      |      |       |      |      |       | 9 @ 4000   | 12 @ 400 |            | 18         | 3 @ 3000 | 3 @ 3000  |
|                          |          |           |   |      |      |       |      |      |       | Total      | 92       | 89         |            |          |           |
| <b>Graduate</b>          |          |           |   |      |      |       |      |      |       |            |          |            |            |          |           |
|                          | 602      | CSE 6020  | CSE 6020. Computation and Complexity Theory                             | X    |      |       |      | X    |       | C          |          |            |            |          |           |
|                          | 610      | CSE 6100  | CSE 6100. Modern Computer Architecture                                  | X    |      |       |      | X    |       |            |          |            |            |          |           |
|                          |          | CSE 6300  | CSE 6300. Theory of Algorithms and Their Analysis                       |      |      | X     |      |      |       |            |          |            |            |          |           |
|                          |          | CSE 6550  | CSE 6550. Software Engineering Concepts                                 |      |      | X     |      |      |       |            |          |            |            |          |           |
|                          |          | CSE 6600  | CSE 6600. Operating Systems Concepts and Theory                         |      |      |       |      | X    |       |            |          |            |            |          |           |
|                          |          | CSE 6980  | CSE 6980. Graduate Seminar  |      |      | X     |      |      |       |            |          |            |            |          |           |

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|------|--|------|
|      | CSE 6020 : Computation and Complexity Theory       |      |
|      | CSE 6030 : Advanced Computation and Complexity     |      |
|      | CSE 6100 : Modern Computer Architecture            | 5100 |
|      | CSE 6110 : VLSI Circuit Design                     |      |
|      | CSE 6200 : Programming Languages Theory            | 5200 |
|      | CSE 6210 : Contemporary Computer Graphics          | 5210 |
|      | CSE 6240 : Distributed Computer Systems            |      |
|      | CSE 6250 : Multiprocessor and Parallel Processing  | 5250 |
| 6300 | CSE 6300 : Theory of Algorithms and Their Analysis |      |
|      | CSE 6310 : Advanced Data Communications            |      |
|      | CSE 6340 : Neural Networks                         |      |
|      | CSE 6350 : Numerical Algorithms and Simulation     | 5350 |
|      | CSE 6400 : Artificial Intelligence                 |      |
| 6550 | CSE 6550 : Software Engineering Concepts           |      |
|      | CSE 6560 : Formal Methods, Models and Languages    |      |
|      | CSE 6600 : Operating Systems Concepts and Theory   |      |
|      | CSE 6700 : Compiler Design Theory                  | 5700 |
|      | CSE 6710 : Advanced Compilers                      |      |
|      | CSE 6800 : Distributed Database Management Systems | 5800 |
| 6890 | CSE 6980 : Graduate Seminar                        |      |