

|      | Units  | In Charge     | Title  | Fall                 | Winter           | Spring      | Summer      |
|------|--------|---------------|--|----------------------|------------------|-------------|-------------|
| 210  | 4      | Shang         | Computer Architecture                              | StaffShang           | EskafiEskafi     | Eskafi      | Zaky        |
| 218  | 2      | Shang         | Input-Output Structures                            |                      |                  |             |             |
| 225  | 2      | Liu           | Secure Coding in C and C++                         |                      | Staff            |             |             |
| 226  | 2      | Liu           | System Certification and Accreditation             |                      |                  |             |             |
| 233  | 4      | Amouzgar      | Computer Networks                                  | ataghdMoataghd       | Moataghd         | Moataghd    |             |
| 234  | 2      | Musurlian     | Network Management                                 |                      | Clemm            |             |             |
| 238  | 2      | Ling          | Multimedia Information Systems                     |                      |                  | Nigel Lin   |             |
| 239  | 4      | Figueira      | Network Design Analysis                            |                      |                  | Bhatnagar   |             |
| 240  | 4      | Fang/Ackerman | Machine Learning                                   | Staff                |                  | V. Liu      | Staff       |
| 241  | 4      | Fang          | Cloud Computing                                    |                      | A. Gupta         | M-H Wang    |             |
| 242  | 4      | Fang          | Big Data   |                      |                  | Koshore     |             |
| 243  | 4      | Dezfouli      | Internet of Things                                 |                      |                  | Dezfouli    |             |
| 250  | 2      | Liu           | Information Security Management                    | LiLi                 | Li               |             |             |
| 252  | 4 + 1L | Liu           | Computer Forensics (x-list with COEN 152)          |                      |                  |             |             |
| 253  | 2      | Liu           | Secure Systems Development and Evaluation          |                      |                  |             | Staff       |
| 256  | 4      | Atkinson      | Programming Languages                              |                      |                  |             |             |
| 259  | 4      | Atkinson      | Compilers  |                      |                  | Staff       |             |
| 260  | 4      | Davis         | Truth, Deduction, and Computation                  | Patryshev            |                  |             |             |
| 261  | 2      | Davis         | Structure and Interpretation of Computer Programs  |                      |                  |             |             |
| 266  | 4      | Fang/Ackerman | Artificial Intelligence                            |                      | V. Liu           | Staff       |             |
| 268  | 4      | Dezfouli      | Mobile Application Development                     | Eskafi               | Eskafi           | Eskafi      |             |
| 271  | 4      | Davis         | Automata, Computability, and Complexity            |                      |                  |             |             |
| 272  | 4      | Fang          | Web Search and Information Retrieval               |                      |                  | Fang        |             |
| 275  | 4      | Mikkilineni   | Object-Oriented Analysis, Design, and Programming  |                      | Cotran           | Cotran      |             |
| 277  | 4      | Fang          | User Experience Research and Design                |                      |                  |             |             |
| 278  | 4      | Fang          | Advanced Web Programming                           | Y. Wang              |                  | Y. Wang     |             |
| 279  | 4      | Shang         | Design and Analysis of Algorithms                  | VuVuTran             | angL. LiuY. Wang | K. LiuShang |             |
| 280  | 4      | Mikkilineni   | Database Systems                                   | Moazzeni             | Moazzeni         | Moazzeni    |             |
| 281  | 4      | Fang          | Pattern Recognition and Data Mining                | Marwah Giovanni Seni | M-H Wang         | M-H Wang    |             |
| 283  | 4      | Amer          | Operating Systems                                  | skafiEskafi/Elkady   | Eskafi           | Eskafi      | Elkady      |
| 284  | 2      | Dezfouli      | Operating Systems Case Study                       |                      |                  |             |             |
| 285  | 4      | Atkinson      | Software Engineering                               | Cotran               |                  |             |             |
| 286  | 2      | Atkinson      | Software Quality Assurance and Testing             |                      | Jarvis           | Jarvis      |             |
| 287  | 2      | Atkinson      | Software Development Process Management            | Kurczveil            | Kurczveil        | Kurczveil   |             |
| 288  | 2      | Atkinson      | Software Ethics                                    | Molhoek              | Staff            | Staff       |             |
| 290  | 4      | Ling          | Computer Graphics (x-list with COEN 148)           | Y. Wang              |                  |             |             |
| 296  | 2-4    | Ling          | Special Topics                                     | M-H Wang             | AckermanLi       |             |             |
| 307  | 2      | Shang         | Digital Computer Arithmetic                        |                      |                  |             |             |
| 313  | 4      | Shang         | Advanced Computer Architecture                     | Zaky                 |                  | Zaky        |             |
| 315  | 2      | Figueira      | Web Architecture and Protocols                     |                      | Staff            |             |             |
| 316  | 2      | Figueira      | Web Services (discontinued)                        |                      |                  |             |             |
| 317  | 4      | Amer          | Distributed Systems                                |                      | Staff            |             |             |
| 318  | 4      | Shang         | Parallel Computation Systems                       |                      |                  | J. Lewis    |             |
| 319  | 4      | Shang         | Parallel Programming                               |                      |                  |             |             |
| 320  | 4      | Figueira      | Computer Performance Evaluation                    |                      |                  |             | Bhatnagar   |
| 329  | 4      | Figueira      | Network Technology                                 | Moataghd             |                  |             |             |
| 331  | 4      | Dezfouli      | Wireless and Mobile Networks                       |                      | Moataghd         | Moataghd    | Moataghd    |
| 332  | 4      | Dezfouli      | Wireless/Mobile Multimedia Networks                |                      |                  | Moataghd    |             |
| 335  | 2      | Figueira      | High-Performance Networks                          |                      | Moataghd         | Moataghd    |             |
| 337  | 2      | Amer          | Internet Architecture and Protocols                |                      |                  |             |             |
| 338  | 4      | Ling          | Image and Video Compression                        |                      | N. Ling          |             |             |
| 339  | 2      | Ling          | Audio and Speech Compression                       |                      |                  |             |             |
| 347  | 4      | Ling          | Advanced Techniques in Video Coding                |                      |                  | V. Liu      |             |
| 350  | 2      | Liu           | Network Security                                   |                      |                  |             |             |
| 351  | 2+1L   | Amer          | Internet and E-Commerce Security                   |                      |                  | Bhatti      |             |
| 353  | 4      | Liu           | Trust and Privacy in Online Social Networks        |                      |                  | Y. Liu      |             |
| 359  | 4      | Mikkilineni   | Design Patterns                                    |                      |                  |             | Mikkilineni |
| 379  | 4      | Shang         | Advanced Design and Analysis of Algorithms         |                      | Tran             | Tran        |             |
| 380  | 4      | Mikkilineni   | Advanced Database Systems                          | Ezzat                | Ezzat            |             |             |
| 383  | 4      | Amer          | Advanced Operating Systems                         | Ezzat                | Ezzat            | Ezzat       |             |
| 385  | 2      | Davis         | Formal Methods in Software Engineering             |                      | Patryshev        |             |             |
| 386  | 2      | Davis         | Software Architecture                              |                      |                  | Cotran      |             |
| 389  | 2      | Figueira      | Energy-Efficient Computing                         |                      |                  |             |             |
| 396  | 2-4    | Ling          | Special Topics                                     | Cotran               |                  |             |             |
| 400  | 1      | Figueira      | Computer Science and Engineering Graduate Seminars | Figueira             | Figueira         | Figueira    |             |
| 485  | 2      | Davis         | Software Engineering Capstone                      | Kurczveil            | Kurczveil        | Kurczveil   |             |
| 912C | 2      | Ling          | Abstract Data Types and Data Structures            | Fussell              |                  |             |             |
| 920C | 2      | Ling          | Embedded Systems and Assembly Language             |                      | Fussell          |             |             |

|       |   |      |                              |         |         |         |         |
|-------|---|------|------------------------------|---------|---------|---------|---------|
| 921C  | 2 | Ling | Introduction to Logic Design | Fussell |         |         |         |
| Total |   | All  | Total Number of Classes      | #VALUE! | #VALUE! | #VALUE! | #VALUE! |