**Spring 2025 Registration Detail for Course Offerings – DRAFT - Updated 12/11/24, SUBJECT TO CHANGE**

Register for classes in StudentAdmin.

[**Biomedical Engineering**](https://gradcatalog.uconn.edu/course-descriptions/course/BME)

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| **Class Nbr** | **Subject Area** | **Catalog Nbr** | **Class Section** | **Description** | **Instruction Mode** | **Enrollment Capacity** | **Instructor (Role)** | **Hours/Days/Location** |
| 8704 | BME | 5040 | 001 | Medical Instrumentation in the Hospital | Online Asynchronous | 15 | TBD | N/A |
| 8655 | BME | 5050 | 001 | Engineering Problems in the Hospital | Online Asynchronous | 15 | David Pillittere | N/A |
| 8729 | BME | 5080 | 001 | Medical Device Cybersecurity | Online Asynchronous | 15 | David Kaputa  | N/A |
| 8629 | BME | 5500 | 010X | Clinical Instrumentation Systems | Online Synchronous | 10 | Marie Luby | Tuesdays 6:30-9:30pm |
| 8723 | BME | 6810 | 010X | Machine Learning Methods for Biomedical Signal Analysis | Online Synchronous | 10 | Sabato Santaniello | Tuesdays 5-8pm |

[**Chemical Engineering**](https://gradcatalog.uconn.edu/course-descriptions/course/CHEG/)

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| **Class Nbr** | **Subject Area** | **Catalog Nbr** | **Class Section** | **Description** | **Instruction Mode** | **Enrollment Capacity** | **Instructor (Role)** | **Hours/Days/Location** |
| 10110 | CHEG | 5339 | 001 | Uncertainty Analysis, Robust Design, and Optimization | Online Synchronous | 60 | Matthew Stuber | Thursdays 5-7pm  |

[**Civil Engineering**](https://gradcatalog.uconn.edu/course-descriptions/course/CE/)

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| **Class Nbr** | **Subject Area** | **Catalog Nbr** | **Class Section** | **Description** | **Instruction Mode** | **Enrollment Capacity** | **Instructor (Role)** | **Hours/Days/Location** |
| 12779 | CE | 5164 | 001 | Finite Elements Methods in Applied Mechanics | Online Asynchronous | 20 | Jeongho Kim | N/A |
| 12777 | CE | 5640 | 001 | Prestressed Concrete Structures | Online Asynchronous | 20 | Kay Wille | N/A |

[**Computer Science & Engineering**](https://gradcatalog.uconn.edu/course-descriptions/course/CSE/)

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| **Class Nbr** | **Subject Area** | **Catalog Nbr** | **Class Section** | **Description** | **Instruction Mode** | **Enrollment Capacity** | **Instructor (Role)** | **Hours/Days/Location** |
| 6049 | CSE | 5602 | 001 | Machine Learning for Physical Sciences and Systems | Online Synchronous | 40 | Qian Yang | Tuesdays 6-7:30pm |
| 6052 | CSE | 5710 | 002 | Data Mining for Data Science | Online Asynchronous | 60 | Joseph Johnson | N/A |
| 5982 | CSE | 5717 | 002 | Big Data Analytics | Online Synchronous | 30 | Wei Wei | Monday/Wednesday 5-6:15pm |

[**Electrical & Computer Engineering**](https://gradcatalog.uconn.edu/course-descriptions/course/ECE)

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| **Class Nbr** | **Subject Area** | **Catalog Nbr** | **Class Section** | **Description** | **Instruction Mode** | **Enrollment Capacity** | **Instructor (Role)** | **Hours/Days/Location** |
| 7900 | ECE | 5550 | 001 | Microgrids | Online Asynchronous | 25 | TBA | N/A |
| 7885 | ECE | 5510 | 010x | Power System Analysis | Online Synchronous | 20 | Junbo Zhao | Wednesdays 6-9pm  |
| 7886 | ECE | 5540 | 001 | Electrical System Protection and Switchgear | Online Synchronous | 25 | Ali Bazzi | Mondays 5-8pm |
| 7833 | ECE | 6122 | 001 | Digital Signal Processing | In Person | 60 | James Wilson | Mondays 6-9pm/ TBA  |

**Engineering**

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| **Class Nbr** | **Subject Area** | **Catalog Nbr** | **Class Section** | **Description** | **Instruction Mode** | **Enrollment Capacity** | **Instructor (Role)** | **Hours/Days/Location** |
|  | ENGR | 5311 | 001 | Prof Communication & Info Mgmt | Online (*FYI – 3 synchronous evening sessions w/on campus OR virtual attendance required*) | 20 | Warren Osterndorf (PI) | N/A |
|  | ENGR | 5312 | 001 | Engr. Proj. Planning & Mgmt. | Online Asynchronous | 20 | Abhay Trivedi  | N/A |
|  | ENGR | 5314 | 001 | Adv Engineering Mathematics | Online Asynchronous | 25 | David Tonn (PI) | N/A |
| Varies | ENGR | 5315 | Varies | MENG Capstone | SEE CAPSTONE GUIDELINESEmail: engrcaee@uconn.edu  | As needed | SEE CAPSTONE GUIDELINES | SEE CAPSTONE GUIDELINES |

[**Environmental Engineering**](https://gradcatalog.uconn.edu/course-descriptions/course/ENVE/)

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| **Class Nbr** | **Subject Area** | **Catalog Nbr** | **Class Section** | **Description** | **Instruction Mode** | **Enrollment Capacity** | **Instructor (Role)** | **Hours/Days/Location** |
| 12788 | ENVE | 5530 | 001 | Environmental Site Investigations | Online Asynchronous | 20 | Baikun Li | N/A |

[**Institute of Materials Science**](https://gradcatalog.uconn.edu/course-descriptions/course/IMS/)

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| **Class Nbr** | **Subject Area** | **Catalog Nbr** | **Class Section** | **Description** | **Instruction Mode** | **Enrollment Capacity** | **Instructor (Role)** | **Hours/Days/Location** |
|  | IMS | 5301 | 001 | Microstructural and Morphological Analyses | Online Asynchronous | 25 | Steven Suib, Seth March | N/A |
|  | IMS | 5304 | 001 | Surface and Interfacial Analysis | Online Asynchronous | 25 | Steven Suib, Abiodun Aderibigbe | N/A |

[**Manufacturing Engineering**](https://gradcatalog.uconn.edu/course-descriptions/course/MFGE/)

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| **Class Nbr** | **Subject Area** | **Catalog Nbr** | **Class Section** | **Description** | **Instruction Mode** | **Enrollment Capacity** | **Instructor (Role)** | **Hours/Days/Location** |
|  | MFGE | 5210 | 001 | Data Science for Materials and Manufacturing | Online Synchronous | 10 | Hongyi Xu | Tuesdays 6-7:30pm |

[**Marine**](https://gradcatalog.uconn.edu/course-descriptions/course/MSE/) **Sciences (*for Oceanographic Science & Tech Certificate Students*)**

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**[Materials Science & Engineering](https://gradcatalog.uconn.edu/course-descriptions/course/MSE/)**

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| **Class Nbr** | **Subject Area** | **Catalog Nbr** | **Class Section** | **Description** | **Instruction Mode** | **Enrollment Capacity** | **Instructor (Role)** | **Hours/Days/Location** |
| 11281 | MSE | 5305 | 001 | Phase transformations in Solids | In Person | 25 | Serge Nakhmanson | Tuesday 4:30-7:00pm |
| 11287 | MSE | 5336 | 010 | Material Selection in Mechanical Design | In Person | 30 | Greg Ojard | Monday 5-7:30pm |
| 11288 | MSE | 5336 | 010x | Material Selection in Mechanical Design | Online Synchronous | 10 | Greg Ojard | Monday 5-7:30pm |
| 11294 | MSE | 5660 | 001 | New Carbon Materials | Online Asynchronous | 20 | Weiming Lu | N/A |

[**Mechanical Engineering**](https://gradcatalog.uconn.edu/course-descriptions/course/ME/)

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| **Class Nbr** | **Subject Area** | **Catalog Nbr** | **Class Section** | **Description** | **Instruction Mode** | **Enrollment Capacity** | **Instructor (Role)** | **Hours/Days/Location** |
| 10697 | ME | 5105 | 010x | Basic Concepts of Continuum ME | Online Synchronous | 20 | George Lykotrafitis | Wednesdays 5-7:30pm |
| 10713 | ME | 5120 | 002 | Advanced Thermo Fluids I | Online Asynchronous | 20 | Reza Sheikhi | N/A |
| 10709 | ME | 5160 | 010x | Theory and Design of Automatic Control Systems | Online Synchronous | 15 | Nejat Olgac | Thursdays 5-7:30pm |
| 10707 | ME | 5430 | 001 | Mechanics of Composites Materials | Online Asynchronous | 10 | Rajiv Naik | N/A |
| 14308 | ME | 5670 | 001 | Applied Structural Optimization | Online Asynchronous | 25 | Julian Norato  | N/A  |
| 10706 | ME | 6170 | 010x | Combustion and Air Pollution Engineering | Online Synchronous | 15 | Paul Papas | Tuesdays 5-7:30pm |

[**Systems Engineering**](https://gradcatalog.uconn.edu/course-descriptions/course/SE/)

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|  | SE | 5000 | 001 | Introduction to Systems Engineering | Online Synchronous | 30 | Dan Hestand | Mondays 6-7:30 pm |
| 10092 | SE | 5102 | 001 | Uncertainty Analysis, Robust Design, and Optimization | Online Synchronous | 30 | Matthew Stuber | Thursdays 5-7pm |
| 11999 | SE | 5602 | 001 | Machine Learning for Physical Sciences and Systems | Online Synchronous | 10 | Qian Yang | Tuesdays 6-7:30pm |
| 10732 | SE | 5702 | 001 | Data Science for Materials and Manufacturing | Online Synchronous | 15 | Hongyi Xu | Tuesdays 6-7:30pm |