

## UCW STEM Degree List

### Science

#### Biology:

- Molecular Biology
- Microbiology
- Marine Biology
- Genetics
- Botany

#### Chemistry:

- Organic Chemistry
- Inorganic Chemistry
- Physical Chemistry
- Biochemistry
- Medicinal Chemistry

#### Physics:

- Astrophysics
- Quantum Physics
- Theoretical Physics
- Nuclear Physics
- Geophysics

#### Earth Sciences:

- Geology
- Meteorology
- Oceanography
- Seismology
- Paleontology

#### Environmental Science:

- Conservation Science
- Ecological Management
- Environmental Chemistry
- Environmental Health

#### Life Sciences:

- Neuroscience
- Pharmacology
- Zoology
- Epidemiology
- Biotechnology
- Geography

### Technology

#### Information Technology (IT):

- Network Administration
- Cloud Computing
- IT Management
- Systems Analysis

#### Computer Science:

- Human-Computer Interaction
- Computer Graphics
- Game Development
- Theoretical Computer Science

#### Software Engineering:

- Mobile App Development
- Embedded Systems
- Software Project Management
- Enterprise Software Development

#### Cybersecurity:

- Ethical Hacking
- Cryptography
- Information Assurance
- Forensic Computing

#### Data Science:

- Big Data Analytics
- Machine Learning
- Computational Statistics
- Data Visualization

#### Artificial Intelligence and Machine Learning:

- Robotics
- Neural Networks
- Natural Language Processing
- AI Ethics

### Engineering

#### Mechanical Engineering:

- Thermodynamics
- Fluid Dynamics
- Mechanical Design
- Robotics

#### Electrical Engineering:

- Power Engineering
- Control Systems
- Microelectronics
- Signal Processing

#### Civil Engineering:

- Structural Engineering
- Transportation Engineering
- Environmental Engineering
- Geotechnical Engineering

#### Chemical Engineering:

- Process Engineering
- Materials Science
- Biochemical Engineering
- Thermodynamics

#### Aerospace Engineering:

- Aerodynamics
- Space Systems Design
- Propulsion Systems
- Avionics

#### Biomedical Engineering:

- Medical Imaging
- Biomaterials
- Biomechanics
- Genetic Engineering

#### Industrial Engineering:

- Operations Research
- Systems Engineering
- Human Factors Engineering
- Supply Chain Management

### Mathematics

#### Applied Mathematics:

- Computational Mathematics
- Financial Mathematics
- Mathematical Physics
- Operations Research

#### Statistics:

- Biostatistics
- Industrial Statistics
- Statistical Theory
- Econometrics

#### Actuarial Science:

- Risk Management
- Insurance Mathematics
- Pension Mathematics
- Financial Modeling

#### Computational Mathematics:

- Numerical Analysis
- Algorithmic Operations
- Modeling and Simulation
- High-Performance Computing