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Search for: \* Home \* About Research \* Welcome Message \* Mission & Vision \* Industry Advisory Panel \* Why CSE at UIU \* News and Events \* Graduate Employment \* Success Stories \* Alumni \* BSc in CSE Research \* Course Plan \* Course Description \* Revised Academic Calendar Fall 2024 \* Mentor List \* Admission \* BSc in Data Science Research \* Admission \* Requirements \* Why Data Science at UIU \* Curriculum Structure \* Course Plan \* MSc in CSE Research \* Academic Calendar \* Available MSCSE Tracks \* Course Description \* Program Requirement \* Upcoming Trimester Info \* Admission \* Faculty Members \* Research Research \* Books \* Conference Paper \* Graduate Projects \* IETF RFC \* Internet Draft \* Journal Paper \* Sponsored Research Projects \* Technical Bulletin \* Undergraduate Projects \* Facilities Research \* Lab Facilities \* IT Services \* Notices \* Contact

Notice \* Home \* Notices

Course Offerings, Summer 2025 (BSCSE/BSDS) Publish Date : June 16, 2025 **United International University Department of Computer Science and Engineering** *Course Offerings, Summer 2025 (BSCSE/BSDS)* **Course Code | Title | Cr |**

**Prerequisite | Remarks |**

---|---|---|---|---|---

**Language |**

ENG 1011 | English I | 3.00 | **Prerequisite** | 4 digit from 211 batch |

ENG 1013 | English II | 3.00 | ENG 1011 | 4 digit from 211 batch |

**General Education Compulsory |**

SOC 2101 | Society, Technology and Engineering Ethics | 3.00 | **Prerequisite** | 4 digit from 183 batch |

PMG 4101 | Project Management | 3.00 | CSE 3411 | From 183 batch |

BDS 1201 | History of the Emergence of Bangladesh | 2.00 | **Prerequisite** | From 211 batch |

**General Education Optional |**

ECO 4101 | Economics | 3.00 | **Prerequisite** | 4 digit from 183 batch |

ACT 2111 | Financial and Managerial Accounting | 3.00 | **Prerequisite** | 4 digit from 183 batch |

IPE 3401 | Industrial and Operational Management | 3.00 | **Prerequisite** | 4 digit from 183 batch |

TEC 2499 | Technology Entrepreneurship | 3.00 | | |

PSY 2101 | Psychology | 3.00 | **Prerequisite** | 4 digit from 183 batch |

**Basic Sciences |**

PHY 2105 | Physics | 3.00 | **Prerequisite** | 4 digit from 183 batch |

PHY 2106 | Physics Lab | 1.00 | **Prerequisite** | 4 digit from 183 batch |

BIO 3105 | Biology for Engineers | 3.0 | **Prerequisite** | From 183 batch |

**Mathematics |**

MATH 1151 | Fundamental Calculus | 3.00 | **Prerequisite** | 4 digit from 183 batch |

MATH 2183 | Calculus and Linear Algebra/ | 3.00 | MATH 1151 | 4 digit from 183 batch |

MATH 2201 | Coordinate Geometry and Vector Analysis | 3.00 | MATH 1151 | 4 digit from 183 batch |

MATH 2205 | Probability and Statistics | 3.00 | MATH 1151 | 4 digit from 183 batch |

**Other Engineering |**

EEE 2113 | Electrical Circuits | 3.00 | **Prerequisite** | 4 digit from 183 batch |

EEE 2123 | Electronics | 3.00 | EEE 2113 | 4 digit from 183 batch |

EEE 2124 | Electronics Lab | 1.00 | **Prerequisite** | 4 digit from 183 batch |

EEE 4261 | Green Computing | 3.00 | **Prerequisite** | 4 digit from 183 batch |

**Core Courses |**

Programming Compulsory |

CSE 1110 | Introduction to Computer Systems | 1.00 | **Prerequisite** | From 183 batch |

CSE 1111 | Structured Programming Language | 3.0 | CSE 1110 | 4 digit from 183 batch |

CSE 1112 | Structured Programming Language Laboratory | 1.00 | CSE 1110 | 4 digit from 183 batch |

CSE 1115 | Object Oriented Programming | 3.00 | CSE 1111 | 4 digit from 183 batch |

CSE 1116 | Object Oriented Programming Lab | 1.00 | CSE 1112 | 4 digit from 183 batch |

CSE 2118 | Advanced Object Oriented Programming Lab | 1.00 | CSE 1116 | 4 digit from 183 batch |

**Programming Optional |**

CSE 4165 | Web Programming | 3.00 | CSE 2118 | 4 digit from 183 batch |

**Course Code | Title | Cr | Prerequisite | Remarks |**

CSE 4181   Mobile Application Development   3.00   CSE 2118   4 digit from 183 batch	
<b>Hardware  </b>	
CSE 1325   Digital Logic Design   3.00       4 digit from 183 batch	
CSE 1326   Digital Logic Design Lab   1.00       4 digit from 183 batch	
CSE 3313   Computer Architecture   3.00   CSE 1325   4 digit from 183 batch	
CSE 4325   Microprocessors and Microcontrollers   3.00   CSE 3313   4 digit from 183 batch	
CSE 4326   Microprocessors and Microcontrollers Lab.   1.00     4 digit from 183 batch	
<b>Logics and Algorithms  </b>	
CSE 2213   Discrete Mathematics   3.00       4 digit from 183 batch	
CSE 2215   Data Structure and Algorithms I   3.00   CSE 1115   4 digit from 183 batch	
CSE 2216   Data Structure and Algorithms I Laboratory   1.00   CSE 1112, CSE 1116   4 digit from 183 batch	
CSE 2217   Data Structure and Algorithms II   3.00   CSE 2215   4 digit from 183 batch	
CSE 2218   Data Structure and Algorithms II Laboratory   1.00   CSE 2216   4 digit from 183 batch	
CSE 2233   Theory of Computation   3.00       4 digit from 183 batch	
<b>Software Engineering  </b>	
CSE 3411   System Analysis and Design   3.00     4 digit from 183 batch	
CSE 3412   System Analysis and Design Lab   1.00     4 digit from 183 batch	
CSE 3421   Software Engineering   3.00   CSE 3411   4 digit from 183 batch	
CSE 3422   Software Engineering Lab   1.00   CSE 3412   4 digit from 183 batch	
<b>Systems  </b>	
CSE 4531   Computer Security   3.00   CSE 3711   4 digit from 183 batch	
CSE 3521   Database Management Systems   3.00       4 digit from 183 batch	
CSE 3522   Database Management Systems Lab   1.00       4 digit from 183 batch	
CSE 4509   Operating Systems Concept   3.00       4 digit from 183 batch	
CSE 4510   Operating Systems Concept Lab   1.00       4 digit from 183 batch	
CSE 3711   Computer Networks   3.00       4 digit from 183 batch	
CSE 3712   Computer Networks Lab   1.00       4 digit from 183 batch	
CSE 3811   Artificial Intelligence   3.00   MATH 2205   4 digit from 183 batch	
CSE 3812   Artificial Intelligence Lab   1.00       4 digit from 183 batch	
<b>Elective courses  </b>	
<b>Computational Theory  </b>	
CSE 4633   Basic Graph Theory   3.00   CSE 2213, CSE 2217   4 digit from 183 batch	
CSE 4611   Compiler Design   3.00   CSE 2233   4 digit from 183 batch	
CSE 4621   Computer Graphics   3.00   MATH 2201, MATH 2183   4 digit from 183 batch	
<b>Network and communications  </b>	
<b>Course Code   Title   Cr   Prerequisite   Remarks</b>	
CSE 3715   Data Communication   3.00       4 digit from 183 batch	
<b>Systems  </b>	
CSE 4523   Simulation and Modeling   3.00   MATH 2205   4 digit from 183 batch	
CSE 4621   Computer Graphics   3.00   MATH 2183, MATH 2201   4 digit from 183 batch	
CSE 4587   Cloud Computing   3.00       4 digit from 183 batch	
CSE 4783   Cryptography   3.00   CSE 2213   4 digit from 183 batch	
<b>Data Science  </b>	
CSE 4889   Machine Learning   3.00   CSE 3811   4 digit from 183 batch	
CSE 4891   Data Mining   3.00   CSE 3811   4 digit from 183 batch	
CSE 4893   Introduction to Bioinformatics   3.00       4 digit from 183 batch	
CSE 4883   Digital Image Processing   3.00   CSE 4889   4 digit from 183 batch	
<b>Software Engineering  </b>	
CSE 4451   Human Computer Interaction   3.00       4 digit from 183 batch	
CSE 4435   Software Architecture   3.00       4 digit from 183 batch	
CSE 4165   Web Programming   3.00   CSE 2118   4 digit from 183 batch	
CSE 4181   Mobile Application Development   3.00   CSE 2118   4 digit from 183 batch	
CSE 4495   Software Testing and Quality Assurance   3.00   CSE 3421   4 digit from 183 batch	
<b>Hardware  </b>	
CSE 4329   Digital System Design   3.00   CSE 3313   4 digit from 183 batch	
<b>Information and Communication Technology</b>	
CSE 4165   Web Programming   3.00   CSE 2118   4 digit from 183 batch	
CSE 4181   Mobile Application Development   3.00   CSE 2118   4 digit from 183 batch	
CSE 4587   Cloud Computing   3.00       4 digit from 183 batch	
CSE 4495   Software Testing and Quality Assurance   3.00   CSE 3421   4 digit from 183 batch	

CSE 4945 | UI: Concepts and Design | 3.00 |   | 4 digit from 183 batch  
Final Year Design Project  
CSE 4000 A | Final Year Design Project I | 2.00 |   | 4 digit from 183 batch  
CSE 4000 B | Final Year Design Project II | 2.00 | CSE 4000 A | 4 digit from 183 batch  
CSE 4000 C | Final Year Design Project II | 2.00 | CSE 4000 A & CSE 4000 B | 4 digit from 183 batch  
**B.Sc. in Data Science (BSDS) Course Code	Title	Credits	Prerequisite	Remarks**
1st Trimester				
DS 1501	Programming for Data Science	3.00		From 233 Batch
DS 1502	Programming for Data Science Laboratory	1.00		From 233 Batch
ENG 1011	English I	3.00		From 233 Batch
BDS 1201	History of the Emergence of Bangladesh	2.00		From 233 Batch
2nd Trimester				
ENG 1013	English II	3.00	ENG 1011	From 233 Batch
MATH 1151	Fundamental Calculus	3.00		From 233 Batch
DS 1115	Object Oriented Programming for Data Science	3.00	DS 1501	From 233 Batch
DS 1116	Object Oriented Programming for Data Science Laboratory	1.00	DS 1501 & DS 1502	From 233 Batch
3rd Trimester				
DS 1101	Fundamentals of Data Science	3.00		From 233 Batch
BIO 3107	Biology	3.00		From 233 Batch
MATH 2107	Linear Algebra	3.00		From 233 Batch
PHY 2105	Physics	3.00		From 233 Batch
PHY 2106	Physics Lab	1.00		From 233 Batch
4th Trimester				
CSE 2215	Data Structures and Algorithms I	3.00		From 233 Batch
CSE 2216	Data Structures and Algorithms I Laboratory	1.00		From 233 Batch
**Course Code	Title	Cr	Prerequisite	Remarks**
MATH 1153	Advanced Calculus	3.00	MATH 1151	From 233 Batch
CSE 2213	Discrete Mathematics	3.00		From 233 Batch
Humanities Optional I	3.00		From 233 Batch	
ACT 2111	Financial and Managerial Accounting			From 233 Batch
ECO 4101	Economics			From 233 Batch
IPE 3401	Industrial and Operational Management			From 233 Batch
SOC 2102	Society, Environment and Computing Ethics			From 233 Batch
PSY 2101	Psychology			From 233 Batch
TEC 2499	Technology Entrepreneurship			From 233 Batch
5th Trimester				
CSE 2217	Data Structures and Algorithms II	3.00	CSE 2215	From 233 Batch
CSE 2218	Data Structures and Algorithms II Laboratory	1.00	CSE 2215, CSE 2216	From 233 Batch
MATH 2205	Probability and Statistics	3.00		From 233 Batch
DS 3885	Data Wrangling	3.00		From 233 Batch
6th Trimester				
CSE 3521	Database Management Systems	3.00		From 233 Batch
CSE 3522	Database Management Systems Laboratory	1.00		From 233 Batch
DS 3101	Advanced Probability and Statistics	3.00	MATH 2107, MATH 2205	From 233 Batch
DS 3521	Data Visualization	3.00		From 233 Batch
DS 3522	Data Visualization Lab	1.00		From 233 Batch
Prerequisites of the courses may be changed where necessary. Before taking any course (where needed), you will have to complete prerequisite course(s).

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- [Guiding Principles](#)
- [Ranking & Accreditation](#)
- [Convocation](#)
- [Gallery](#)
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- [Career](#)
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- [Dept. of CSE](#)
- [B.Sc in Data Science](#)
- [Dept. of EEE](#)
- [Dept. of Civil Engineering](#)
- [Dept. of Pharmacy](#)
- [Dept. of English](#)
- [Dept. of EDS](#)
- [Dept. of MSJ](#)
- [SoBE \(BBA, AIS, MBA, EMBA\)](#)
- [Dept. of Economics](#)
- [Dept. of BGE](#)

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- [Admission](#)
- [Tuition Fees & Waiver](#)
- [Admission Requirements](#)
- [Admission Test Result](#)
- [Admission Procedure](#)
- [Admission Dates](#)
- [International Studentsâ€™ Admission](#)
- [Global Opportunities](#)
- [International Collaboration](#)
- [FAQ](#)

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- [Time Schedule of Shuttle Services](#)
- [Student Transportation Service](#)
- [Payment Procedure](#)
- [Student e-Resources](#)
- [Important Contact](#)

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- [UCAM](#)
- [eLMS](#)
- [Parent Portal](#)
- [Online Classroom Booking](#)
- [Degree Verification](#)

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- [Notice](#)
- [News](#)
- [Event](#)

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