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# **Learning and User Experience Design (LUX)**

# Curriculum

## **University Core (33 hours)**

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| **Course** | **Hours** |
| English | EN 1103 English Comp IEN 1113 English Comp II | 33 |
| Fine Arts (General Education) | Any Gen Ed course | 3 |
| Natural Sciences (2 labs required) | Any two Gen Ed courses with labs | 6 |
| Quantitative Reasoning (General Education) | Any Gen Ed course (take MA 1313 if you will choose the Data Science endorsement) | 3 |
| Humanities (General Education) | Any two Gen Ed courses | 6 |
| Social/Behavioral Sciences (Gen Ed) | Any two Gen Ed courses | 6 |
| Writing Requirement  | MGT 3213 Org Communications *OR*INDT 3813 Writing for Industry | 3 |

## **Business Core (9 hours)**

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| **Course** | **Course Title** | **Hours** | **Prerequisite(s)** |
| MGT 3113 | Principles of Management | 3 | Junior standing |
| MGT 3513 | Introduction to Human Resources Management | 3 | Junior standing |
| BIS 3233 | Management Information Systems | 3 |  |

## **Learning and User Experience Design Core (60 hours)**

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| **Course** | **Course Title** | **Hours** | **Prerequisite(s)** |
| TECH 1273 | Computer Applications | 3 |  |
| TECH 2023 | Introduction to Human-Centered Design | 3 |  |
| TECH 2213 | Introduction to Artificial Intelligence Infrastructure | 3 |  |
| TECH 2233 | Information and Media Literacy | 3 |  |
| TECH 2533 | Learning Experience Design | 3 |  |
| TECH 3123 | Introduction to Experience Design Research | 3 | TECH 2023 |
| TECH 3223 | Experience Design Applications | 3 | TECH 2023 |
| TECH 3313 | Computational Thinking | 3 |  |
| TECH 3583 | Instructional Graphic Production | 3 |  |
| TECH 4203 | Emerging Technologies | 3 | TECH 1273 |
| TECH 4343 | Information Technology Project Management | 3 | TECH 1273 or BIS 1012 |
| TECH 4523 | Experience Design Evaluation | 3 | TECH 2023 and TECH 3123 |
| TECH 4583 | Graphics and Web Design | 3 | TECH 1273 or BIS 1012 |
| TECH 4613 | Application of Artificial Intelligence in UX/LX | 3 |  |
| TECH 4683 | Senior Seminar in Learning and User Experience Design | 3 | TECH 3223, TECH 4523 and senior standing |
| TECH 4713 | Authoring for Instruction | 3 | TECH 2533 |
| TECH 4753 | Video and Audio Production | 3 | TECH 1273 or BIS 1012 |
| Approved Elective | 3 |  |
| Approved Elective | 3 |  |
| Approved Elective | 3 |  |

## **Endorsement Area (Choose one: 18-19 hours)**

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| **Information Technology Services (18 hours)** |
| **Course** | **Course Title** | **Hours** | **Prerequisites** |
| TECH 2123 | Intro to Database Management | 3 | TECH 1273 |
| TECH 2563 | Creating Machine Learning Systems | 3 | TECH 2123 |
| TECH 2653 | The Internet of Things | 3 |  |
| TECH 3463 | Computer Repair and Maintenance | 3 | TECH 1273 or BIS 1012 |
| TECH 4563 | Intro to Data Networks | 3 | TECH 1273 or BIS 1012 |
| TECH 4573 | Data Networks II | 3 | TECH 4563 |

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| **Product Development (18 hours)** |
| **Course** | **Course Title** | **Hours** | **Prerequisites** |
| INDT 1003 | Technical Drafting and Print Reading | 3 |  |
| INDT 2343 | Parametric Modeling for 3D Design | 3 | INDT 1003 |
| INDT 2353 | Industrial Computer Aided Drafting and Design | 3 | INDT 1003 |
| INDT 4443 | Additive Manufacturing and Rapid Prototyping | 3 | INDT 2343 |
|  INDT elective (choose from INDT courses) | 3 |  |
|  INDT elective (choose from INDT courses) | 3 |  |

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| **Art and Graphic Design (18 hours)** |
| **Course** | **Course Title** | **Hours** | **Prerequisites** |
| Option 1 | ART 1123 | Design I | 3 |  |
| ART 1133 | Design II | 3 | ART 1123 |
| ART 2803 | Digital Design I | 3 |  |
| ART 2813 | Digital Design II | 3 | ART 2803 |
|  ART elective (choose from ART classes) | 3 |  |
|  ART elective (choose from ART classes) | 3 |  |
| Option 2 |  Graphic Design Minor |

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| **Data Science (19 hours)** |
| **Course** | **Course Title** | **Hours** | **Prerequisites** |
| DSCI 2013 | Data Science Literacy | 3 |  |
| CSE 1284 | Introduction to Computer Programming | 4 | MA 1313 or equivalent |
| DSCI 4013 | Data Visualization | 3 |  |
| DSCI 2012 | Data Science Lab – Data Wrangling | 2 |  |
| MA/ST 3123 | Statistical Inference | 3 | MA 1313 or ACT math subscore of 24 |
| *Choose two of the following labs (2 hours each):* DSCI 2022 Data Science Lab – Cloud, High-Performance, and Quantum Computing DSCI 3012 Data Science Lab – Description, Analysis and Inference DSCI 3022 Data Science Lab – Data Visualization DSCI 3032 Data Science Lab – Artificial Intelligence | 4 | DSCI 2012MA 3123DSCI 2012DSCI 2012 |