

## Michigan Technological University

### Minor in Business IT Solutions

Program Code BITM, Academic Year 2022-23

College of Business

Total Credits Required: 18

#### Core Required Courses (9 credits) – complete the three courses from this list

- MIS 2000 IS/IT Management (3) *Prereqs: BUS1100 or CS1121 or CS1131 or ENG1101 or (ENG1001 and ENG1100) or SAT1200*
- MIS 3100 Business Database Management (3) *Prereqs: MIS2000(C) or MIS2100 or CS1122 or CS1131*
- MIS 3200 Systems Analysis and Design (3) *Prereqs: MIS2000(C) or MIS2100(C) or CS1122 or CS1131*

#### Required Programming Course (3 credits) – select one course from this list

- CS 1090 Special Topics in Computer Science (3)
- CS 1111 Introduction to Programming in C/C++ (3)
- CS 1121 Introduction to Programming I (3) *Prereqs: MA1031(C) or MA1032(C) or MA1120(C)*
- CS 1131 Accelerated Introduction to Programming (5) *Prereqs: MA1031(C) or MA1032(C) or MA1160(C) or MA1161(C) or MA1121(C)*
- MIS 2100 Introduction to Business Programming (3) *Prereqs: BUS1100 or CS1121 or CS1131 or ENG1101 or (ENG1001 and ENG1100) or SAT1200*

#### Elective Courses (6 credits) – select at least two courses from one of the elective areas below

- Elective Area: Usability and Human Factors in IT Design
  - MIS 2200 Web Programming (3) *Prereqs: MIS2100 or CS1122 or CS1131*
  - MIS 3500 User-Centered Design (3) *Prereqs: MIS2000 or MIS2100 or CS1122 or CS1131*
  - HU 2642 Introduction to Digital Media (3)
  - HU 3120 Technical and Professional Communication (3) *Prereqs: UN1015 and (UN1025 or Modern Language – 3000 level or higher)*
  - HU 4628 Usability Evaluation and User Experience Design (3) *Prereqs: (HU3120 or HU3121) and UN1015 and (UN1025 or Modern Language – 3000 level or higher)*
  - HF 3850 Human Factors (3) *Prereqs: PSY2000 or HF2000*
  - HF 4015 Cognitive Task Analysis (3) *Prereqs: PSY2000 or HF2000*
- Elective Area: Systems Thinking for Design
  - MIS 3500 User-Centered Design (3) *Prereqs: MIS2000 or MIS2100 or CS1122 or CS1131*
  - MIS 4000 Emerging Technologies (3) *Prereqs: (MIS2100 and MIS3200(C)) or (CS2321 and CS3141)*
  - ENG 1505 Introduction to Systems Engineering (1)
  - ENG 2505 Introduction to Low Fidelity Systems Modeling (3) *Prereqs: ENG1505 and MA2160(C) and (ENG1102(C) or CS1121 or CS1131 or MIS2100)*
- Elective Area: Data and IT
  - MIS 4400 Business Intelligence and Analytics (3) *Prereqs: (MIS2100 or CS1122 or CS1131) and (MIS3100 or CS3425)*
  - MIS 4000 Emerging Technologies (3) *Prereqs: (MIS2100 and MIS3200(C)) or (CS2321 and CS3141)*
  - MA 2330 Introduction to Linear Algebra (3) *Prereqs: MA1160 or MA1161 or MA1135 or MA1121*
  - MA 3740 Statistical Programming and Analysis (3) *Prereqs: MA2710 or MA2720 or MA3710 or MA3715*