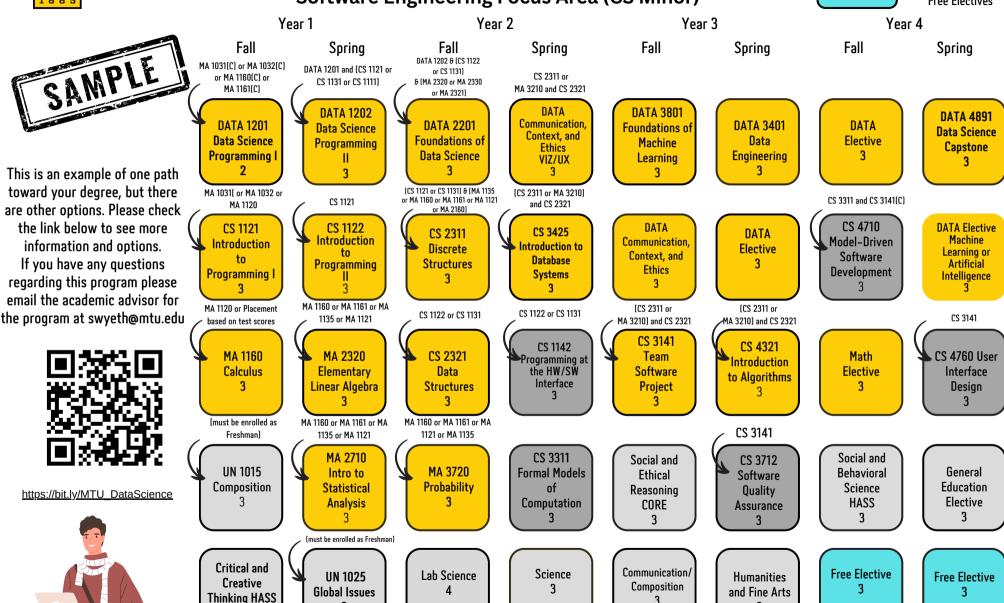


BS Data Science

Academic Year 2023-2024



College of Computing Software Engineering Focus Area (CS Minor)



Co-Curricular 0.5 Credits

Co-Curricular 0.5 Credits

0.5 Credits

Co-Curriculai 0.5 Credits

Co-Curricular 0.5 Credits

Co-Curricular

0.5 Credits

Total Academic Credits: 120

Total co-curricular: 3 credits

3



BS DATA SCIENCE 2023-2024

CORE REQUIREMENTS

55-57 Credits

- CS 1121 (3) and CS1122 (3) or CS 1131 (5)
- CS 2311(3) or MA 3210 (3)
- CS 2321(3)
- CS 3425 (3) or SAT 3210 (3)
- CS 4321(3)
- MA 1160 (4)
- MA 2320 (2) or MA 2330 (3)
- MA 2710 (3)
- MA 3720 (3)
- MA 3740 (3) or MA 4710 (3) or MA 4790 (3)
- DATA 1201 (2)
- DATA 1202 (3)
- DATA 2201(3)
- DATA 3801(3)
- DATA 3401(3)
- DATA 4891
- HU 2645 (3) or MIS 3500 (3) or DATA 2600
- CS 3000 (3) or SAT 1700 (3) or DATA 3000 (3)

Free Electives: 5 to 7 credits

Any coursework is allowable, including -co-curricular and coursework below the 1000 level.

Software Engineering

- CS 1142 (3)
 - Choose 12 credits:
- CS 3311 (3)
- CS 3712 (3)
- CS 4710 (3)
- CS 4711 (3)
- CS 4760 (3)

FOCUS AREA

See course catalog for Connect with your advisor @ prerequisites www.mtu.edu/computing/undergaduate/advising

DATA SCIENCE ELECTIVES

12 credits

Up to 6 credits in Data Science Electives can be 2000–3000 level Select one course from a list of Machine Learning/AI related topics:

· CS 4811 (3)

·CS 4821(3) or CS 5831(3)

· CS 5811 (3)

·CS 5821(3)

· CS 5841 (3)

· EET 4501(3)

Select three remaining courses from below or any course above not already used: CS 3141, CS 4001, CS 4471, CS 4760, MA 2600, MA 3740, MA 4770, MA 4

MA 4330, MA 4710, MA 4720, MA 4760, MA 4770, MA 4780/5780, MA 4790/5790, SAT 2711, SAT 3310, SAT 3812, SAT 4144, SAT 4283, SAT 5165, MIS 4000, MIS 4400

7 Credits Minimum

Complete two science courses in two different disciplines (BL, CH, KIP, FW, GE, PH, SS). At least one must include or be taken with the accompanying laboratory.

LAB SCIENCE REQUIREMENTS

Core Courses: 12 credits

Year One

_UN 1015 (3)

_UN 1025 or upper level modern language(3)

Year Two

- _ Critical and Creative Thinking
- _ Social Responsibility and Ethical Reasoning (3)

HASS: 12 credits, 6 of the 12 must be at the 3000-4000 level

- _Communication/Composition (minimum 3 credits)
- _ Humanities and Fine Arts (minimum 3 credits)
- _ Social and Behavioral Sciences (minimum 3 credits)
- _ Any course from the General Education Core, HASS, or restricted
- HASS (0-3 credits)
- +Co-curricular Activities: 3 credits

GENERAL EDUCATION
REQUIREMENTS