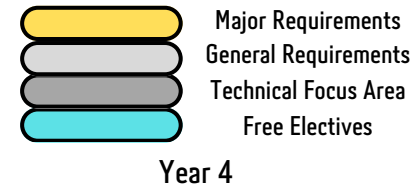




# BS Data Science



## Cybersecurity Focus Area (Cybersecurity Minor)

Year 1

Year 2

Year 3

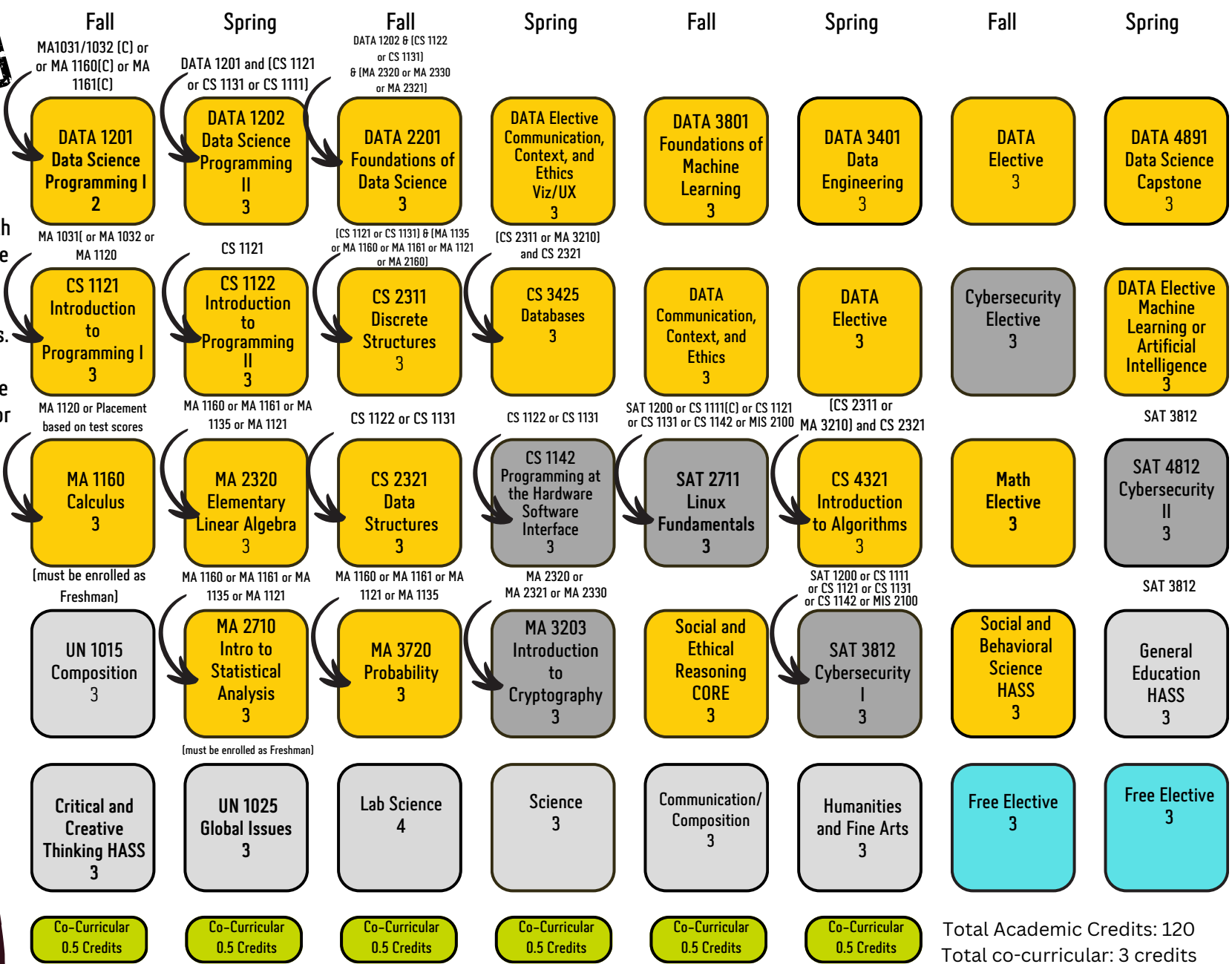
Year 4



This is an example of one path toward your degree, but there are other options. Please check the link below to see more information and options. If you have any questions regarding this program please email the academic advisor for the program at [swyeth@mtu.edu](mailto:swyeth@mtu.edu)



[https://bit.ly/MTU\\_DataScience](https://bit.ly/MTU_DataScience)



Total Academic Credits: 120  
Total co-curricular: 3 credits



# BS DATA SCIENCE 2023-2024

<b>CORE REQUIREMENTS</b>	<b>55–57 Credits</b>
<ul style="list-style-type: none"> <li>• CS 1121 (3) and CS1122 (3) or CS 1131 (5)</li> <li>• CS 2311 (3) or MA 3210 (3)</li> <li>• CS 2321 (3)</li> <li>• CS 3425 (3) or SAT 3210 (3)</li> <li>• CS 4321 (3)</li> <li>• MA 1160 (4)</li> <li>• MA 2320 (2) or MA 2330 (3)</li> <li>• MA 2710 (3)</li> <li>• MA 3720 (3)</li> <li>• MA 3740 (3) or MA 4710 (3) or MA 4790 (3)</li> <li>• DATA 1201 (2)</li> <li>• DATA 1202 (3)</li> <li>• DATA 2201 (3)</li> <li>• DATA 3801 (3)</li> <li>• DATA 3401 (3)</li> <li>• DATA 4891</li> <li>• HU 2645 (3) or MIS 3500 (3) or DATA 2600</li> <li>• CS 3000 (3) or SAT 1700 (3) or D 3000 (3)</li> </ul>	

<b>DATA SCIENCE ELECTIVES</b>	<b>12 credits</b>
<p>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:</p> <ul style="list-style-type: none"> <li>• CS 4811 (3)</li> <li>• CS 4821 (3) or CS 5831 (3)</li> <li>• CS 5811 (3)</li> <li>• CS 5821 (3)</li> <li>• CS 5841 (3)</li> <li>• EET 4501 (3)</li> </ul> <p>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 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</p>	

<b>7 Credits Minimum</b>	<b>LAB SCIENCE REQUIREMENTS</b>
<p>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.</p>	

**Free Electives: 5 to 7 credits**  
 Any coursework is allowable, including –co–curricular and coursework below the 1000 level.

<b>Cybersecurity</b>	
<ul style="list-style-type: none"> <li>• CS 1111 (3) or CS 1142 (3) or MIS 2100 (3)</li> <li>• CS 4471 (3)</li> <li>• EE 4723 (3)</li> <li>• MA 3203 (3)</li> <li>• SAT 4812 (3)</li> </ul>	<ul style="list-style-type: none"> <li>• Select 0–2 course(s) if needed</li> <li>• CS 3712 (3)</li> <li>• CS 4471 (3)</li> <li>• CS 4710 (3)</li> <li>• MIS 4200 (3)</li> <li>• SAT 2711 (3)</li> <li>• SAT 3310 (3)</li> </ul>
	<b>FOCUS AREA</b>

	<b>Core Courses: 12 credits</b>
<p><b>Year One</b>          _UN 1015 (3)          _UN 1025 or upper level modern language(3)</p> <p><b>Year Two</b>          _ Critical and Creative Thinking          _ Social Responsibility and Ethical Reasoning (3)</p> <p><b>HASS: 12 credits, 6 of the 12 must be at the 3000–4000 level</b>          _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)  <b>+Co–curricular Activities: 3 credits</b></p>	
	<b>GENERAL EDUCATION REQUIREMENTS</b>

See course catalog for prerequisites	Connect with your advisor @ <a href="http://www.mtu.edu/computing/undergraduate/advising">www.mtu.edu/computing/undergraduate/advising</a>
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