



# CS matrix, 24-month + 3-month refresher

<b>Q0</b> Su/Wi	<b>CS2001 (3-3)</b> Fundamentals of Computing Systems	<b>CS2020 (3-4)</b> Intro to Programming	<b>MA2025 (4-1)</b> Logic and Discrete Mathematics	<b>NW3230 (4-2)</b> Strategy and War	
<b>Q1</b> Fa/Sp	<b>CS2011 (4-0)</b> Computing Systems Principles	<b>CS3040 (4-2)</b> Low-level Prog I	<b>CS3001 (4-2)</b> Foundations of Computer Science	<b>OS3307 (4-1)</b> Modeling Practices for Computing	<b>CS4924 (1-0)</b> Seminar Series in CS and CSO
<b>Q2</b> Su/Wi	<b>CS3200 (3-2)</b> Computer Architecture	<b>CS3021 (4-2)</b> Intro to Data Structures & Intermediate Prog	<b>CS3101 (4-2)</b> Theory of Formal Languages & Automata	<b>CS3070 (3-2)</b> Operating Systems	<b>CS4924 (1-0)</b> Seminar Series in CS and CSO
<b>Q3</b> Fa/Sp	<b>CS3600 (4-2)</b> Intro to Computer Security	<b>CS3140 (3-2)</b> Low-level Prog II	<b>CS3502 (4-2)</b> Computer Comm. and Networks	<b>CS3310 (4-1)</b> Artificial Intelligence	<b>CS4900 (2-0)</b> Technology & Transformation
<b>Q4</b> Su/Wi	<b>CS3250 (3-3)</b> Intro to Cyber Physical Systems	<b>CS3150 (4-0)</b> Design and Analysis of Algorithms	<b>CS3060 (3-1)</b> Database Systems	<b>SW3460 (4-2)</b> Software Methodology	<b>CS4903 (2-0)</b> Research Methods in CS
<b>Q5</b> Fa/Sp	<b>CS0810 (0-8)</b> Thesis Research	<b>Breadth Elective</b>	<b>CS3315 (3-1)</b> Intro to Machine Learning & Big Data	<b>CS3004 (3-2)</b> Human-Computer Interaction	<b>CS4924 (1-0)</b> Seminar Series in CS and CSO
<b>Q6</b> Su/Wi	<b>CS0810 (0-8)</b> Thesis Research	<b>Specialization Requirement</b>	<b>Specialization Requirement</b>	<b>NW3275 (4-0)</b> JMO Part 1	<b>CS4924 (1-0)</b> Seminar Series in CS and CSO
<b>Q7</b> Fa/Sp	<b>CS0810 (0-8)</b> Thesis Research	<b>Specialization Requirement</b>	<b>Specialization Requirement</b>	<b>NW3276 (2-2)</b> JMO Part 2	<b>CS4924 (1-0)</b> Seminar Series in CS and CSO
<b>Q8</b> Su/Wi	<b>CS0810 (0-8)</b> Thesis Research	<b>Specialization Requirement</b>	<b>Specialization Requirement</b>	<b>NW3285 (4-0) TSDM</b> or <b>MN3331 (USMC)</b>	<b>CS4924 (1-0)</b> Seminar Series in CS and CSO

■ Research slots 
 ■ Specialization 
 ■ Refresher 
 ■ JPME 
 ■ Seminar series 
 ■ Core