

## Computer Science (368) Matrix, USN

Optional Refresher (Winter/Sum)	<b>CSR100</b> Refresher for Beginning Programming	<b>MA-2025</b> Logic & Discrete Math I	<b>NW-3230</b> Strategy & Policy		
Quarter 1 (Fall/Spring)	<b>CS-2020 (4-2)</b> Introduction to Objects & Programming	<b>CS-2011 (4-2)</b> Computer Systems Principles	<b>CS-3000 (4-1)</b> Great Principles of Computing Technology	<b>MA-3025 (5-1)</b> Logic & Discrete Math II	
Quarter 2 (Winter/Sum)	<b>CS-3021 (4-2)</b> Introduction to Data Structures & Intermediate Programming	<b>CS-3600 (4-2)</b> Introduction to Computer Security	<b>CS-3101 (4-0)</b> Automata	<b>OS-3307 (4-1)</b> Modeling Practices for Computing or non-track elective	<b>CS-4900 (2-0)</b> Technology & Transformation I
Quarter 3 (Fall/Spring)	<b>CS-3070 (3-2)</b> Operating Systems	<b>CS-3502 (4-2)</b> Computer Comms & Networks	<b>CS-3310 (4-1)</b> Artificial Intelligence	<b>CS-3150 (4-0)</b> Algorithms	<b>CS-4901 (2-0)</b> Technology & Transformation II
Quarter 4 (Winter/Sum)	<b>CS-3113 (3-2)</b> Introduction to Compiler Writing	<b>CS-3022 (4-2)</b> Programming Paradigms	<b>CS-3060 (3-1)</b> Database Systems	<b>SW-3460 (3-1)</b> Software Methodology	
Quarter 5 (Fall/Spring)	<b>CS-3004 (3-2)</b> Human – Computer Interfaces	Track Core Requirement	Track Core Requirement	<b>NW-3230</b> Strategy and Policy	
Quarter 6 (Winter/Sum)	<b>CS-0810</b> Thesis Research	Track Core Requirement	Track Specialization Requirement	<b>NW-3275</b> Joint Maritime Operations Part 1	
Quarter 7 (Fall/Spring)	<b>CS-0810</b> Thesis Research	Track Core Requirement	Track Specialization Requirement	<b>NW-3276</b> Joint Maritime Operations Part 2	
Quarter 8 (Winter/Sum)	<b>CS-0810</b> Thesis Research	Track Specialization Requirement	Track Specialization Requirement	<b>NW-3285</b> National Security Decision	

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NW-3275, NW-3276 and NW-3285 become track electives or thesis slots for non-JPME students.

## Computer Science (368) Matrix, USMC

Refresher (Winter/Sum)	<b>CSR100</b> Refresher for Beginning Programming	<b>MA-2025</b> Logic & Discrete Math I	<b>NW-3230</b> Strategy & Policy		
Quarter 1 (Fall/Spring)	<b>CS-2020 (4-2)</b> Introduction to Objects & Programming	<b>CS-2011 (4-2)</b> Computer Systems Principles	<b>CS-3000 (4-1)</b> Great Principles of Computing Technology	<b>MA-3025 (5-1)</b> Logic & Discrete Math II	
Quarter 2 (Winter/Sum)	<b>CS-3021 (4-2)</b> Introduction to Data Structures & Intermediate Programming	<b>CS-3600 (4-2)</b> Introduction to Computer Security	<b>CS-3101 (4-0)</b> Automata	<b>OS-3307 (4-1)</b> Modeling Practices for Computing or non-track elective	<b>CS-4900 (2-0)</b> Technology & Transformation I
Quarter 3 (Fall/Spring)	<b>CS-3070 (3-2)</b> Operating Systems	<b>CS-3502 (4-2)</b> Computer Comms & Networks	<b>CS-3310 (4-1)</b> Artificial Intelligence	<b>CS-3150 (4-0)</b> Algorithms	<b>CS-4901 (2-0)</b> Technology & Transformation II
Quarter 4 (Winter/Sum)	<b>CS-3113 (3-2)</b> Introduction to Compiler Writing	<b>CS-3022 (4-2)</b> Programming Paradigms	<b>CS-3060 (3-1)</b> Database Systems	<b>SW-3460 (3-1)</b> Software Methodology	
Quarter 5 (Fall/Spring)	<b>CS-3004 (3-2)</b> Human – Computer Interfaces	Track Core Requirement	Track Core Requirement	Breadth or Track Elective	
Quarter 6 (Winter/Sum)	<b>CS-0810</b> Thesis Research	Track Core Requirement	Track Specialization Requirement	Breadth or Track Elective	
Quarter 7 (Fall/Spring)	<b>CS-0810</b> Thesis Research	Track Core Requirement	Track Specialization Requirement	<b>MN-3331 (5-1)</b> Principles of Acquisition and Program Management	
Quarter 8 (Winter/Sum)	<b>CS-0810</b> Thesis Research	Track Specialization Requirement	Track Specialization Requirement	Breadth or Track Elective	

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