

**Current Core Skill Requirements**  
**Computer Science and System Design (CS)**  
**Subspecialty 6203**  
**Curriculum# 368**

Billet subspecialty coding is to be based on the minimum education/training/experience level required for optimum performance. The following is a representative sampling of duty requirements for which this subspecialty applies:

- (1) Plan and develop large DOD and naval software projects, to include specification of requirements, design, technical documentation, implementation, risk analysis, testing, acquisition, quality assurance, maintenance, process metrics, and measures of effectiveness.
- (2) Assess interoperability of hardware and software and manage acquisition processes for future network capabilities.
- (3) Develop, operate, manage, maintain or assess network systems and architectures at multiple security levels, and ensure cross-domain security and portability. Recommend and implement solutions to network problems.
- (4) Model, design and implement network infrastructures for distributed and mobile systems. Apply distributed multicore and multi-processor systems in High Performance Computing (HPC) and cloud computing configurations to support DOD and naval requirements.
- (5) Make recommendations concerning military application of future cyber capabilities to enhance operations. Determine requirements from local to enterprise level, particularly with respect to integration with tactical systems and cloud computing, and find viable solutions for denied or degraded communications scenarios.
- (6) Devise and employ measures to preserve and protect friendly/DOD cyberspace capabilities, networks and net-centric capabilities. Plan and carry out actions that protect and defend information systems by ensuring availability, integrity, authentication, confidentiality and non-repudiation.
- (7) Develop and input cyber-relevant requirements into research, development, and acquisition processes for military systems.
- (8) Ensure useful data is collected, processed, stored, protected, organized, made accessible, and merged with related data sources to deliver relevant information to decision makers at all levels of command. Devise automated data extraction, parsing and management capabilities to identify and deliver relevant data sets for generation of operational knowledge.

(9) Identify requirements and solutions for improved Human Machine Interface and operational efficacy of information and decision-enabling systems and tools.

(10) Employ cyber systems to enable the commander to make operational decisions and direct forces with the utmost speed, accuracy and efficiency, such that adversaries cannot disrupt friendly actions or respond appropriately or effectively.

(11) Design, construct, operate and evaluate DOD and naval autonomous systems including unmanned vehicles sensor systems; analysis tools for security, forensics and intelligence, and delivery of autonomous sensor-obtained data for DOD and Navy mission requirements.

Computer Science and system Design/6203 subspecialty coding is justified when, in addition to the general criteria stated in NAVPERS 15839 series (Manual of Navy Officer Manpower and Personnel Classification) Part B, the following specific criteria are satisfied:

1. Subspecialty Coding Restrictions:

a. Billets assigned to: no restrictions.

2. Applicable Officer Designator(s):

1110/1120/1160/1170/1310/1320/1230/1440/1510/1800/1810/1820/1830/1840

XXX7 (FTS) codes within the applicable designators are authorized.

3. Applicable Billet Designators:

1110/1120/1310/1320/1230/1440/1510/1800/1810/1820/1830/1840

4. Significant Experience Criteria

a. Computer Science and System Design/6203 S-coded Billets are not authorized.

b. Computer Science and System Design/6203 S-coded Officers are not authorized.

c. Computer Science and System Design/6203 R-coded Billets are not authorized.

d. Computer Science and System Design/6203 R-coded Officers are not authorized.

5. Baccalaureate Criteria

a. Computer Science and System Design/6203 E-coded Billets are not authorized.

b. Computer Science and System Design/6203 E-coded Officers are not authorized.

6. Elective Level Criteria

a. Computer Science and System Design/6203 H-coded Billets are not authorized.

7. Functional Education Criteria

a. Computer Science and System Design/6203 F-coded Billets are not authorized.

b. Computer Science and System Design/6203 G-coded Officers are authorized.

8. Masters Criteria

a. Computer Science and System Design/6203 P-coded Billets are authorized when the functions of the billet include at least four of the duty competencies listed above.

b. Computer Science and System Design/6203 P-coded Officers are justified when:

(1) The Officer completes Computer Science and System Design Master's Degree/6203 ESRs.

(2) Full Subspecialty will not be given if thesis or capstone project is not completed. The Officer will receive the G Subspecialty Code.

c. Computer Science and System Design/6203 Q-coded Billets are authorized when the functions of the billet include competencies listed above and requires previous significant experience.

d. Computer Science and System Design/6203 Q-coded Officers are justified when:

(1) The Officer attends a civilian institution and earns a Master's degree but does not meet the ESRs for the P-code.

(2) They complete Computer Science and System Design/6203 ESRs and have done at least 18 months in a master's degree coded billet or higher - Must have a P code prior to Q coded tour.

(3) G-coded Officers cannot obtain Q codes. They will be authorized F codes.

9. Post-Masters

a. Computer Science and System Design/6203 N-coded Billets are not authorized.

b. Computer Science and System Design/6203 N-Coded Officers are not authorized.

c. Computer Science and System Design/6203 M-coded Billets are not authorized.

d. Computer Science and System Design/6203 M-Coded Officers are not authorized.

10. Doctorate Criteria

a. Computer Science and System Design/6203 D-coded Billets are authorized when the functions of the billet include:

(1) Detailed knowledge beyond that attainable through master's degree or other pre-doctoral programs.

(2) Research.

b. Computer Science and System Design/6203 D-Coded Officers are authorized when the Officer completes Computer Science and System Design Doctorate Degree/6203 ESRs.

c. Computer Science and System Design/6203 C-coded Billets are authorized when the functions of the billet include competencies listed above and requires previous significant experience.

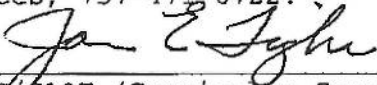

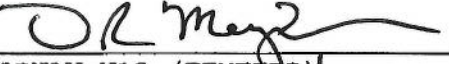
d. Computer Science and System Design/6203 C-Coded Officers are authorized when:

(1) The Officer attends a civilian institution and earns a Doctorate degree.

(2) They complete Computer Science and System Design Doctorate/6203 ESRs and have done at least 18 months in a master's degree coded billet or higher.

12. Major Area Sponsor and Subject Matter Experts:

- Major Area Sponsor POC: LCDR William Nesbitt, OPNAV N2/N6C1, 703-604-6293.
- Subject Matter Expert POC: Mr. Joseph Sullivan, Navy Information Dominance Forces, 757-471-6722.

APPROVED:	 FCQ C10F (Curriculum Sponsor)	<u>18 JUN 15</u> Date
APPROVED:	 OPNAV N2/N6 (MAS)	<u>13 JUL 2015</u> Date
APPROVED:	 OPNAV N12 (TFMTERD)	<u>22 FEB 2016</u> Date