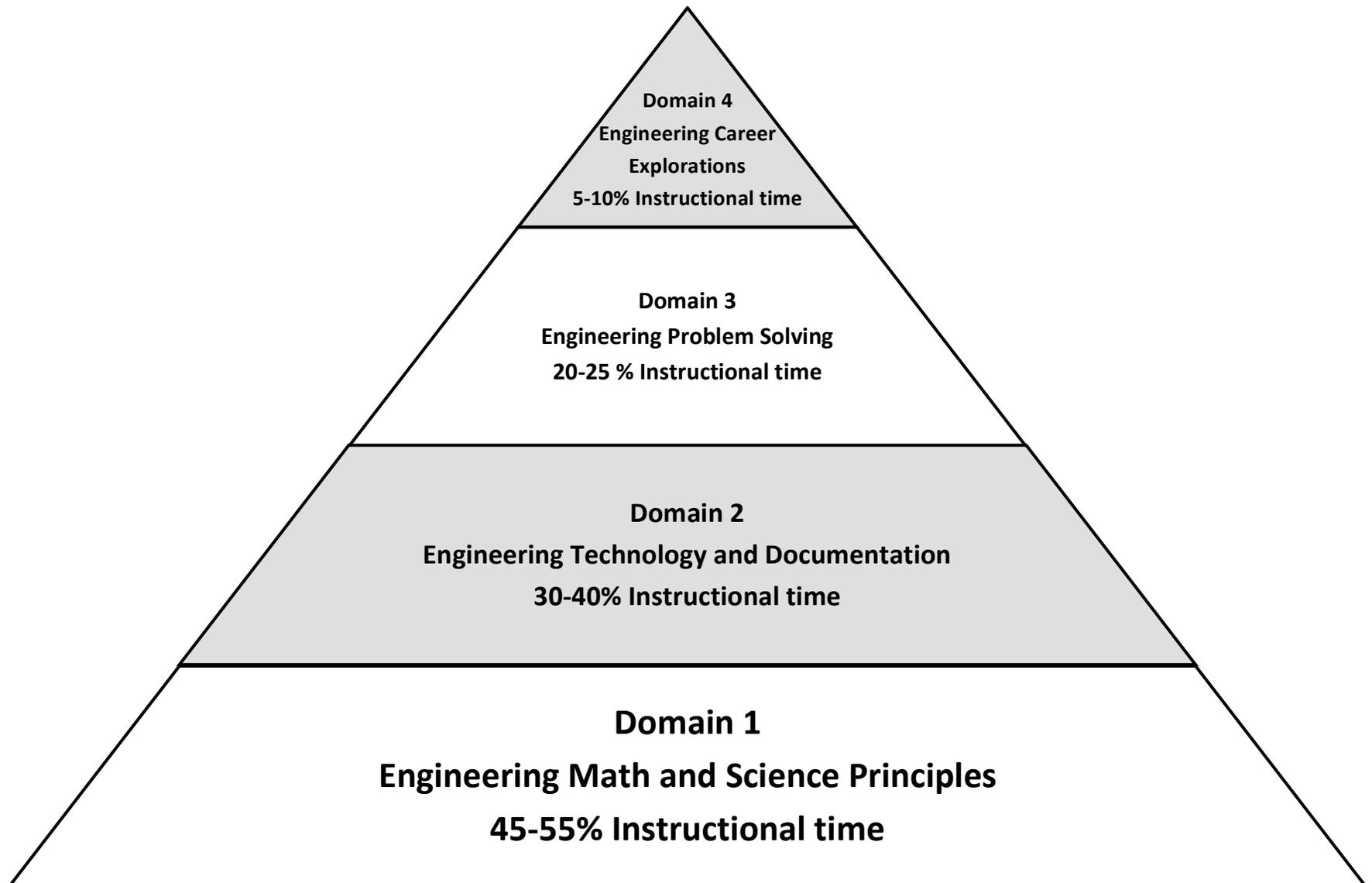


Content Domains

Engineering Sciences 15.0000.00



The technical standards for the Engineering Sciences Program are clustered in 4 domains. The greatest percentage of instructional time will be spent on domains 1 and 2 with less time on domains 3 and 4. Students who complete the program should demonstrate a thorough knowledge in each of these domains.

Blueprint for Instruction and Assessment

Engineering Sciences

15.0000.00

Domain	Related Standards	Instructional Time
Domain 1 Engineering Math and Science Principles	STANDARD 3.0 Apply mathematical laws and principles relevant to engineering and technology STANDARD 4.0 Apply fundamental scientific laws and principles relevant to engineering and technology	45-55%
Domain 2 Engineering Technology and Documentation	STANDARD 5.0 Apply engineering technology and tools STANDARD 6.0 Apply documentation and communication skills	30-40%
Domain 3 Engineering Problem Solving	STANDARD 2.0 Apply a structured problem-solving process to create solutions STANDARD 7.0 Develop a project management plan to implement a solution	20-25%
Domain 4 Engineering Career Explorations	STANDARD 1.0 Investigate engineering as a human endeavor aimed to address the needs of a global society	5-10%

Content domains are bodies of knowledge, skills or abilities to be taught or assessed. They are clustered as related to technical standards for instruction. The suggested percentage of instructional time is listed for each domain. Instructional time corresponds to the percentage of assessment items included on the Technical Skills Assessment. November 2017