

# SFC Engineering Curriculum: Scope & Sequence Framework

Pre-Playground	Playground	NIT	Novice Green	Novice White	Midget Green	Midget White	Junior Green	Junior White	Inter Green	Inter White	Seniors
<b>Civil</b>	<b>Civil</b>	<b>Civil</b>	<b>Civil</b>	<b>Civil</b>	<b>Civil</b>	<b>Civil</b>	<b>Civil</b>	<b>Civil</b>	<b>Civil</b>	<b>Civil</b>	<b>Civil</b>
Blocks	Blocks	Sandbox	Beach	Beach	Beach	Fluid	Primitive	Survival	Bridging .3	Bridging .3	Survivor
Sandbox	Sandbox	Beach	Construction Lab .2	Construction Lab .3	Construction Lab .3	Mechanics .3	Technologies	Technologies	Soils .2	Soils .2	Island
Beach	Beach	Construction Lab .2	Fluid	Fluid	Fluid	Surficial	Bridging .1	Bridging .2	Terrain	Terrain	West Point
Construction Lab .1	Construction Lab .1	Pretend	Mechanics .1	Mechanics .2	Mechanics .2	Geology .1	Surficial	Soils .1	Analysis	Analysis	Invitational
Pretend	Pretend	Play	Ingenuity			Erosion Lab	Geotechnical .2	Terrain	Structural	Surficial	Construction .1
Play	Play	Fluid	Challenge .3				Erosion Lab	Analysis	Geology:	Geology .3	Concrete & Timber
Sarah Lawrence	Ingenuity Challenge .1	Mechanics .1					Ingenuity	Cal Tech	Bearing	Erosion Lab	Surficial
Invitational	Stanford Invitational						Challenge .7	Invitational	Capacity Lab .2	Rensselaer	Geology .3
									Ingenuity Challenge .9	Polytechnic Invitational	Erosion Lab
<b>Aerospace</b>	<b>Aerospace</b>	<b>Aerospace</b>	<b>Aerospace</b>	<b>Aerospace</b>	<b>Aerospace</b>	<b>Aerospace</b>	<b>Aerospace</b>	<b>Aerospace</b>	<b>Aerospace</b>	<b>Aerospace</b>	<b>Aerospace</b>
			Model Aircraft Flight OPS	Model Aircraft Flight OPS	Model Making F-18	Rockets .1 Flight Lab	Rockets .2 Build & Flight Lab	Rockets .3 Ballistic Physics	Kites & Principles of Lift	Lighter Than Air Flight Lab	
					Survivability: Egg Drop Lab		MIT Invitational	West Point Invitational			
<b>Chemical</b>	<b>Chemical</b>	<b>Chemical</b>	<b>Chemical</b>	<b>Chemical</b>	<b>Chemical</b>	<b>Chemical</b>	<b>Chemical</b>	<b>Chemical</b>	<b>Chemical</b>	<b>Chemical</b>	<b>Chemical</b>
	Emulsions & Surfactants: Bubbleology Lab	Emulsions & Surfactants: Bubbleology Lab	Polymers Dr. Suess's Oobleck	Polymers Dr. Suess's Oobleck	Polymers Slime Lab .1	Polymers Penn State Invitational	Catalysis & Chemical Reaction	Catalysis & Chemical Reaction	Emulsions & Surfactants Lab		
			Non-Newtonian Fluidity Lab	Non-Newtonian Fluidity Lab							
<b>Mechanical</b>	<b>Mechanical</b>	<b>Mechanical</b>	<b>Mechanical</b>	<b>Mechanical</b>	<b>Mechanical</b>	<b>Mechanical</b>	<b>Mechanical</b>	<b>Mechanical</b>	<b>Mechanical</b>	<b>Mechanical</b>	<b>Mechanical</b>
							Hand Tools .1	Hand Tools .2	Hand Tools .3	Air Tools	Power Tools
							Rigging .1	Rigging .1	Rigging .2	Rigging .2	Rigging .3
<b>Biological</b>	<b>Biological</b>	<b>Biological</b>	<b>Biological</b>	<b>Biological</b>	<b>Biological</b>	<b>Biological</b>	<b>Biological</b>	<b>Biological</b>	<b>Biological</b>	<b>Biological</b>	<b>Biological</b>
							SAV .1 Univ. of MD Invitational	Aquaculture Oyster.1	Aquaculture Oyster.2	Aquaculture Oyster.3	Aquaculture Oyster.4
							SAV .2	SAV .3	SAV .4		
							Reforestaton	Reforestaton	Reforestaton		
<b>Naval</b>	<b>Naval</b>	<b>Naval</b>	<b>Naval</b>	<b>Naval</b>	<b>Naval</b>	<b>Naval</b>	<b>Naval</b>	<b>Naval</b>	<b>Naval</b>	<b>Naval</b>	<b>Naval</b>
	Bouyancy Lab .1	Bouyancy Lab .1	Bouyancy Lab .2	Bouyancy Lab .2	Bouyancy Lab .3	Bouyancy Lab .3	Boat Design & Construction	Boat Design & Construction	Naval Architecture US Naval Academy	Naval Architecture US Naval Academy	Cardboard Boat Races
		Ingenuity Challenge .2		Ingenuity Challenge .4		Ingenuity Challenge .6		Ingenuity Challenge .8	Invitational	Invitational	