

570 Naval/Mechanical Engineering 9 Quarter Matrix (winter start) (with TSSE, no Refresher)

W	Course	Course	Course	Course	Course	Seminar
W (2)	MA1115 (4-0) (1,2,3,4) Multi-Variable Calculus (MA1113-4/EQ)	MA1116 (3-0) (1,2,3,4) Vector Calculus (MA1113-4/EQ)	ME2502 (4-1) (2, 4) Engineering Dynamics (ME2501)	MS2201 (3-2) (2,4) Engineering Materials (Undergrad courses in calc, physics and chem.)	ME2201 (3-2) (2,4) Intro to Fluid Mechanics (ME2502-C)	ME0951 (0-1) Seminar
Sp (3)	MA2121 (4-0) (1,2,3,4) Diff Equations (MA1114)	MA2043 (4-0) (1,3) Intro to Matrix and Linear Algebra	ME2101 (4-2) (1,3) Thermodynamics (MA1115)	AE2440 (3-2) (1,3) Intro to Digital Computation Or EC2440 (3-2) (2/4)	ME2801 (3-2) (1,3) Sys Dynamics (ME2502/MA2121)	ME0951 (0-1) Seminar
Su (4)	MA3132 (4-0) (1,2,3,4) Partial Diff Eqns. (MA2121/MA1116)	MA3232 (4-0) (2,4) Numerical Analysis (MA1115/MA2121)	ME2601 (4-1) (2,4) Mechanics of Solids I (ME2501 and MA1114/EQ)	TS3001 (3-2) (2,4) Fund Principles of Naval Architecture (ME2201/ME2601)		ME0951 (0-1) Seminar
F (1)	ME3201 (4-1) (1,3) Applied Fluid Mechanics (ME2101/ME2201/ MA3132)	ME3611 (4-0) (1,3) Mechanics of Solids II (ME2601)	TS3000 (4-2) (1) Basic Electronics and Electrical Machines (MA2043/ MA2121/ ME2440)	SE3100 (3-2) (1,3) Fundamentals of Systems Engineering OR TS3002	NW3230 (4-0) (1,2,3,4) Maritime and Joint Strategic Planning	ME0951 (0-1) Seminar
W (2)	ME3150 (4-1) (2,4) Heat Transfer (ME2101-ME2201/MA3132-C)	ME3240 (4-2) (2,4) Marine Power and Propulsion (ME2101/ ME3201/ ME3521-C)	ME3521 (3-2) (2,4) Mechanical Vibrations (ME2503/ ME2601/ MA2121)	TS3003 (3-2) (2,4) Naval Combat System Elements (ME2503)	NW3275 (4-0) (1,2,3,4) Joint Maritime Operations – part 1	ME0951 (0-1) Seminar
Sp (3)	MS3202 (3-2) (1,3) Prop, Perf and Failure of Eng Materials (MS2201/EQ)	ME3450 (3-2) (1,3) Comp Methods in Mechanical Eng (ME3201/MA3132)	TS4000 (3-2) (3) Naval Combat System Engineering (TS3000/ TS3003)	TS4001 (3-2) (3) Integration of Naval Engineering Systems (TS3000/ TS3001/ TS3002)	NW3276 (2-2) (1,2,3,4) Joint Maritime Operations – part 2	ME0951 (0-1) Seminar
Su (4)	ME0810 (0-8) Thesis	ME3801 (3-2) (2,4) Automatic Controls (ME2801)	ME3711 (4-1) (2,4) Design of Machine Elements (ME3611)	TS4002 (2-4) (4) Ship Design Integration (TS4001/ TS4000)	NW3285 (4-0) (1,2,3,4) National Security Decision Making	ME0951 (0-1) Seminar
F (1)	ME0810 (0-8) Thesis	ME4XXX Specialization Elective	MS3304 (3-2) (3), Corrosion (MS2201) OR MS3606 (3-2) (1) Intro to Welding and Joining Metallurgy	TS4003 (2-4) (1) Total Ship Systems Engineering (TS4002)		ME0951 (0-1) Seminar
W (2)	ME0810 (0-8) Thesis	ME0810 (0-8) Thesis	EO2701 (4-2) (2,4) Intro to Cyber Systems (Previous exposure)	ME4XXX Specialization Elective		ME0951 (0-1) Seminar

Sample
Course # (hours) (Quarters Offered: 1-F, 2-W, 3-Sp, 4-Su) Course Name (Prerequisites)

Legend
★ Preparatory Courses
❖ 570 Core
◆ Degree Specialization
⊗ ESR's (required for USN 5600 P-code)
TSSE Track
● Required for EDO's
JPME (optional for EDO/CEC)

updated Mar 2017

Four (graded) courses required per quarter.

570 Naval/Mechanical Engineering 9 Quarter Matrix (summer start) (with TSSE, no Refresher)

Su	Course	Course	Course	Course	Course	Course	Seminar
Su (4)	MA1115 (4-0) (1,2,3,4) Multi-Variable Calculus (MA1113-4/EQ)	MA1116 (3-0) (1,2,3,4) Vector Calculus (MA1113-4/EQ)	ME2502 (4-1) (2, 4) Engineering Dynamics (ME2501)	MS2201 (3-2) (2,4) Engineering Materials (Undergrad courses in calc, physics and chem.)	ME2201 (3-2) (2,4) Intro to Fluid Mechanics (ME2502-C)		ME0951 (0-1) Seminar
F (1)	MA2121 (4-0) (1,2,3,4) Diff Equations (MA1114)	MA2043 (4-0) (1,3) Intro to Matrix and Linear Algebra	ME2101 (4-2) (1,3) Thermodynamics (MA1115)	AE2440 (3-2) (1,3) Intro to Digital Computation Or EC2440 (3-2) (2/4)	TS3000 (4-2) (1) Basic Electronics and Electrical Machines (MA2043/ MA2121/ ME2440)		ME0951 (0-1) Seminar
W (2)	MA3132 (4-0) (1,2,3,4) Partial Diff Eqns. (MA2121/MA1116)	MA3232 (4-0) (2,4) Numerical Analysis (MA1115/MA2121)	ME2601 (4-1) (2,4) Mechanics of Solids I (ME2501 and MA1114/EQ)	TS3001 (3-2) (2,4) Fund Principles of Naval Architecture (ME2201/ME2601)	TS3003 (3-2) (2,4) Naval Combat System Elements (ME2503)		ME0951 (0-1) Seminar
Sp (3)	ME3201 (4-1) (1,3) Applied Fluid Mechanics (ME2101/ME2201/ MA3132)	ME3611 (4-0) (1,3) Mechanics of Solids II (ME2601)	TS4000 (3-2) (3) Naval Combat System Engineering (TS3000/ TS3003)	TS4001 (3-2) (3) Integration of Naval Engineering Systems (TS3000/ TS3001/ TS3002)	SE3100 (3-2) (1,3) Fundamentals of Systems Engineering OR TS3002		ME0951 (0-1) Seminar
Su (4)	ME3150 (4-1) (2,4) Heat Transfer (ME2101-ME2201/MA3132- C)	ME3240 (4-2) (2,4) Marine Power and Propulsion (ME2101/ ME3201/ ME3521 C)	ME3521 (3-2) (2,4) Mechanical Vibrations (ME2503/ ME2601/ MA2121)	TS4002 (2-4) (4) Ship Design Integration (TS4001/ TS4000)		NW3230 (4-0) (1,2,3,4) Maritime and Joint Strategic Planning	ME0951 (0-1) Seminar
F (1)	MS3202 (3-2) (1,3) Prop, Perf and Failure of Eng Materials (MS2201/EQ)	ME3450 (3-2) (1,3) Comp Methods in Mechanical Eng (ME3201/MA3132)	ME2801 (3-2) (1,3) Sys Dynamics (ME2502/MA2121)	TS4003 (2-4) (1) Total Ship Systems Engineering (TS4002)		NW3275 (4-0) (1,2,3,4) Joint Maritime Operations – part 1	ME0951 (0-1) Seminar
W (2)	ME0810 (0-8) Thesis	ME3711 (4-1) (2,4) Design of Machine Elements (ME3611)	ME3801 (3-2) (2,4) Automatic Controls (ME2801)	EO2701 (4-2) (2,4) Intro to Cyber Systems (Previous exposure)		NW3276 (2-2) (1,2,3,4) Joint Maritime Operations – part 2	ME0951 (0-1) Seminar
Sp (3)	ME0810 (0-8) Thesis	ME0810 (0-8) Thesis	ME4XXX Specialization Elective	MS3304 (3-2) (3), Corrosion (MS2201) OR MS3606 (3-2) (1) Intro to Welding and Joining Metallurgy			ME0951 (0-1) Seminar
Su (4)	ME0810 (0-8) Thesis		ME4XXX Specialization Elective			NW3285 (4-0) (1,2,3,4) National Security Decision Making	ME0951 (0-1) Seminar

Sample
Course # (hours) (Quarters Offered: 1-F, 2-W, 3-Sp, 4-Su) Course Name (Prerequisites)

Legend
★ Preparatory Courses
❖ 570 Core
◆ Degree Specialization
⊗ ESR's (required for USN 5600 P-code)
TSSE Track
● Required for EDO's
JPME (optional for EDO/CEC)

Four (graded) courses required per quarter.

updated Mar 2017