

**Materials Engineering (MatE) 5 Year Curriculum Plan**

YEAR	FALL SEMESTER	UNITS
1	MATH 30 CALCULUS I (P)	3
	GE (A1) ORAL COMM	3
	ENGL 1A COMPOSITION	3
	ENGR 10 INTRO ENGR	3
	<b>SEMESTER TOTAL</b>	<b>12</b>
2	MATH 32 CALCULUS III	3
	CHEM 1A GEN. CHEM	5
	PHYS 51 GEN. PHYSICS	4
	<i>WRITING SKILLS TEST</i>	0
	<b>SEMESTER TOTAL</b>	<b>12</b>
3	ENGR 100W ENGR REPORT <sup>WST</sup>	3
	CHEM 161A PHYS. CHEM. I	3
	AMS 1A AMERICAN STUDIES	6
	<b>SEMESTER TOTAL</b>	<b>12</b>
	4	MATE 115 STRUC/PROPS SOLIDS <sup>LD</sup>
CHE 162 STATISTICS & ANALYSIS		3
TECH ELECTIVE		3
MATE 143 SCANNING ELECTRON		1
CHE 161 LAB SAFETY & ETH. <sup>JC</sup> <sub>100W</sub>		1
<b>SEMESTER TOTAL</b>		<b>11</b>
5	MATE 198A SEN. DESIGN PROJ. <sup>JC</sup> <sub>100W</sub>	2
	Engr 195A	1
	MATE 195 MECH. BHVR. MATLS <sup>JC</sup> <sub>100W</sub>	3
	MATE 185 CERAMICS <sup>JC, 100W</sup>	3
	TECH ELECTIVE	3
	<b>SEMESTER TOTAL</b>	<b>12</b>

SPRING SEMESTER	UNITS
MATH 31 CALCULUS II	4
PHYS 50 GEN. PHYSICS (P)	4
ENGL 1B COMPOSITION	3
<b>SEMESTER TOTAL</b>	<b>11</b>
MATH 133A ORD. DIF. EQN	3
CHEM 1B GEN. CHEM	5
MATE 25 INTRO. TO MATERIALS	3
CE 99 STATICS	2
<b>SEMESTER TOTAL</b>	<b>13</b>
AMS 1B AMERICAN STUDIES	6
EE 98 INTRO. CIRCUIT ANAL.	3
MATE 153 ELEC. PROP. MATLS	3
<b>SEMESTER TOTAL</b>	<b>12</b>
MATE 151 PROC THERMO	3
MATE 154 METALS & ALLOYS	3
MATE 141 MATERIALS ANALYSIS	3
MATE 155 MATERIALS PROC ENGR.	3
<b>SEMESTER TOTAL</b>	<b>12</b>
MATE 198B SEN. DESIGN PROJECT	2
Engr 195B	1
MATE 152 SOLID STATE KIN. <sup>JC</sup> <sub>100W</sub>	3
MATE 186 POLYMERS	3
MATE 144 XRAY DIFF LAB	1
TECH ELECTIVE	3
<b>SEMESTER TOTAL</b>	<b>13</b>

**TOTAL 120**

**NOTES: FOOTNOTES**

(P)

**MEANING**

**MUST TAKE PLACEMENT EXAM TO ENTER THIS COURSE**

(JC)

**MUST PASS JUNIOR CORE: C AVERAGE IN MATE 115, 141, 151, 153, 154, and 155 WITH A MINIMUM OF C- IN EACH**

(WST)

**MUST PASS THE WRITING SKILLS TEST TO ENTER THIS COURSE**

(100W)

**MUST PASS ENGR 100W TO PRIOR TO STARTING THIS COURSE**

(LD)

**MUST PASS LOWER DIVISION CORE: C AVERAGE PHYS 51, MATH 32 & 133A, CHEM 1A & 1B**