

VILLANOVA UNIVERSITY - MECHANICAL ENGINEERING DEPARTMENT
UNDERGRADUTE DEGREE AUDIT (129 Credits)

Freshman Year (I)

FALL		credits
113 CHM	1103 Chemistry Lab I	1
113 CHM	1151 Chemistry I	4
124 ACS	1000 Trads in Conversation	3
160 MAT	1500 Calculus I	4
182 THL	1050 Intro to Christian Theology	3
332 EGR	1200 Interdisciplinary projects I	3
		18
SPRING		
113 CHM	1156 Chemistry II	4
124 ACS	1001 Modernity & Discontent	3
160 MAT	1505 Calculus II	4
177 PHY	2400 Physics I	3
332 EGR	1205 Interdisciplinary projects II	3
		17

Sophomore Year (II)

FALL		
362 ME	2502 Professional Dev. Seminar	1
160 MAT	2500 Calculus III	4
177 PHY	2402 Physics II	3
177 PHY	2403 Physics Lab	1
362 ME	2100 Statics	3
362 ME	2505 Analysis & Design	4
		16
SPRING		
362 ME	2900 M.E. Lab I	1
160 MAT	2705 Differential Equations	4
362 ME	3100 Thermodynamics	3
315 CEE	2103 Mechanics of Solids	3
362 ME	2101 Dynamic Systems I	3
118 COM	1101 Business & Prof. Comm.	3
		17
Total Credits		68

Junior Year (III)

FALL		credits
362 ME	3102 Dynamic Systems II	3
362 ME	3950 Heat Transfer	3
362 ME	3402 Solid Mechanics & Design I	3
362 ME	3600 Fluids & Fluid Systems	3
330 ECE	2052 Fund. of Electrical Egr	3
330 ECE	2053 Fund. of Electrical Egr. Lab	1
		16
SPRING	ABROAD	
	Theology > 2000	3
	Humanities/Social Science ²	3
	Theology > 2000 or Any PHI	3
	Free Elective	3
		12

Senior Year (IV)

FALL		
362 ME	ME Elec./Track Elec. ³	3
	Career/ME Elective ⁴	3
	Career/ME Elective ⁴	3
362 ME	4801 Design Seminar I	2
362 ME	4902 M.E. Lab III	1
	Professional Dev. Elective ⁶	3
	Ethics Elective ⁵	3
		18
SPRING		
362 ME	4802 Design Seminar II	2
362 ME	ME Elec./Track Elec. ³	3
362 ME	3333 Manufacturing Engineering	3
362 ME	3300 Materials Science I	3
362 ME	Restricted ME Elective ¹	3
362 ME	3900 M.E. Lab II	1
		15
Total Credits		61

¹ must be selected from ME 3103, ME 3403, ME 4850; student in the tracks must take the appropriate course in their track

² Course selection available from catalog or advisor

³ must be selected from the ME electives listed for the students in tracks; any ME elective for others

⁴ a) ME elective or b) appropriate elective from "hard" sciences and/or other Eng. Depts. or c) a course from the student's minor

⁵ This course may be replaced with an approved ethics course from the student's minor

⁶ List (subject to change): EGR 2001, ME 4050, ME 4600, CEE 4601, BL 1090

⁷ any 3-credit course offered at Villanova including a course from student's minor or ME 4010 (summer internship)