

Physics – Area of Concentration
Track 2: Engineering Physics (Mechanical)

FIRST YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	CHEM 111/111L Principles of Chemistry I & Lab	R	4			CHEM 112/112L Principles of Chemistry II & Lab	R	4
	COMM 108 Oral Communication	G	3			ENG 200 Writing II	G	3
	ENG 100 Writing I	G	3			MATH 275 Calculus II	R	4
	MATH 175 Calculus I	G	4			HUM I	G	3
	FYS 101 First Year Seminar	G	3			PHYS 270 Introduction to Scientific Computing	R	3
Total Credit Hours			17		Total Credit Hours			17

SECOND YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	MATH 276 Calculus III	R	4			IET 260 Materials Science	R	3
	PHYS 231/231A Engineering Physics I & Lab	R	5			PHYS 232/232A Engineering Physics II & Lab	R	5
	ITMT 186 Manufacturing & Fabrication	R	3			PHYS 221 Statics	R	3
	SBS I	G	3			IET 307 Hydraulics & Pneumatics	R/U	3
Total Credit Hours			15		Total Credit Hours			14

THIRD YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	PHYS 353 Concepts of Modern Physics I	R/U	4			MATH 363 Differential Equations	R/U	3
	PHYS 340 Experimental Physics	R/U	3			PHYS 411 Thermodynamics	R/U	3
	NCS I	G	3			PHYS 354 Concepts of Modern Physics II	R/U	3
	HUM II	G	3			NCS II	G	3
	PHYS 381 Computer Solutions	R/U	3			SBS II	G	3
Total Credit Hours			16		Total Credit Hours			15

FOURTH YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	PHYS 391 Dynamics	R/U	3			Major courses	R/U	3
	PHYS 481 Mathematics for Scientists & Engineers	R/U	3			PHYS 499D Senior Thesis II	G/U	1
	PHYS 499C Senior Thesis I	G/U	2			Electives	*/U	8
	Major course	R/U	3					
	Elective	*/U	3					
Total Credit Hours			14		Total Credit Hours			12

Codes

(U) Upper Division Course 300-400 level (you must have 42 hours)

(R) Required Course (G) General Education Course