

SPU General Engineering Major Requirements Checklist (2009-2010 Catalog)

Mechanical Engineering Concentration

For students entering the General Engineering major in 2009-2010.

Name: _____

Expected Graduation Date: _____

ID Number: _____

Advisor signature/Date: _____

1. SPU Foreign Language Requirement _____

2. Mathematics

Number	Course Name	Credits	Transfer #	Advisor Check
MAT 1234	Calculus I	5		
MAT 1235	Calculus II	5		
MAT 1236	Calculus III	5		
MAT 2401	Linear Algebra	3		
MAT 3237	Differential Equations	3		
MAT 3238	Vector Calculus	3		
MAT 3724	Applied Analysis	3		

3. Science

Number	Course Name	Credits	Transfer #	Advisor Check
CHM 1211	General Chemistry I	5		
CSC 1230	Problem Solving and Programming	5		
PHY 1121	Physics for Science and Engineering I	5		
PHY 1122	Physics for Science and Engineering II	5		
PHY 1123	Physics for Science and Engineering III	5		

4. General Engineering Core Requirements

Number	Course Name	Credits	Transfer #	Advisor Check
EGR 1402	Introduction to Engineering	1		
EGR 2200	Probability and Statistics for Engineers	2		
EGR 3000	Engineering Seminar & Internship Prep	1		
EGR 3810	General Engineering Design	5		
EGR 4811	EGR Senior Design I	3		
EGR 4812	EGR Senior Design II	3		
EGR 4899	EGR Capstone & Senior Design	3		
EGR 4940	Engineering Internship	1		
EE 2726	Electric Circuits I	4		

5. Appropriate & Sustainable Engineering Requirements

Number	Course Name	Credits	Transfer #	Advisor Check
EGR 1501	AutoCAD	1		
EGR 2891	Statics	4		
EGR 2500	Thermo-Fluids I	5		
EGR 3300	Properties of Materials	3		
EGR 3310	Mechanics of Materials	4		
EGR 3400	Kinematics and Dynamics	5		
EGR 3430	System Dynamics	5		
EGR 3501	Thermo-Fluids II	5		
EGR 3502	Thermo-Fluids III	2		
EGR 4410	Mechanical Systems Lab	3		

6. Technical Electives

A list of approved choices is listed in the catalog. **16 credits of technical electives are required.**

Number	Course Name	Credits	Transfer #	Advisor Check