SIMPSON UNIVERSITY

Bachelor of Science in ENGINEERING Credit Worksheet

Name: _____ Date: _____

GENERAL EDUCATION (44 credits)

BASECAMP (37)

GATE 1000 University, Vocation & Wellness (2; F) _____
*†ENGL 1220 Principles of College Writing II (3; F,Sp) _____
COMM 1260 Oral Communication (3; F,Sp) _____
BIBL 1300 Literature of the Old Testament (3; F,Sp) _____
BIBL 1310 Literature of the New Testament (3; F,Sp) _____
CORE 2000 Engaging Faith and Society (3; F,Sp) _____
*MATH 2610 Statistics (3; F,Sp) _____
*CHEM 1510 Chemistry I (3+1) _____
ENGR 1000 Intro to Engineering (3,F) _____
*PHYS 2510 University Physics I (3+1, Sp) _____
*PHYS 2520 University Physics II (3+1, F) _____
*ENGR 1950 Engineering Economic Analysis (2) _____

EXPEDITION COURSES (4)

Trail #2 Cultural Perspectives or Trail #3 Civic Engagement (3 units)
Select one from "Trail #2" OR "Trail #3 course menus on reverse)
Course taken: _____ _____

Trail #5: Adventure Recreation (1 unit)
(Select one from Trail #5 course menu on reverse)
Course taken: _____ _____

SUMMIT (3)

(Select one from "Summit" courses menu on reverse)
Course taken: _____ _____

REQUIRED PREREQUISITE

*#MATH 1830 Precalculus (3; Sp)
#This course may be waived with dept. chair permission.
If course is taken, it will count toward unrestricted elective credits

† ENGL 1210 Principles of College Writing I is the pre-requisite for ENGL 1220. You may be waived from ENGL 1210 by SAT, ACT, AP or a Placement Exam. If you need ENGL 1210 it will count as an

**Additional program requirements*

Course has prerequisites; consult course descriptions in catalog

Additional program requirements
LEAD 2000 Service Seminar (0; FSp) _____
Cross-Cultural Coursework (6 units)
Students must complete 6 credits of cross-cultural courses in GE and/or major. Look for courses on this sheet with § or refer to catalog for a complete list.
Course taken: HUMA 1450 or HUMA 1460 in GE

MAJOR REQUIREMENTS (81)

CORE REQUIREMENTS (74)

*MATH 2430 Calculus I (4,F) _____
*MATH 2530 Calculus II (4,Sp) _____
*MATH 2630 Calculus III (3,F) _____
*MATH 3250 Linear Algebra (3,F) _____
*MATH 3930 Differential Equations (3,Sp) _____
ENGR 1060 Comp Aided Design & Modeling (3) _____
ENGR 1830 Comp Program/Algortihms (4) _____
*ENGR 2150 Statics (3) _____
*ENGR 2250 Dynamics (3) _____
*ENGR 2400 Princ of Materials Science (4) _____
*ENGR 2510 Linear Circuits I (4) _____
*ENGR 2600 Mat & Proc in Manufacturing (3) _____
*ENGR 2910 Sophomore Project (2) _____
*ENGR/BUSS 2940 Principles of Mgmt (3) _____
*ENGR 3210 Signals and Systems (3) _____
*ENGR 3410 Thermodynamics (3) _____
*ENGR 3530 Control Systems (3) _____
*ENGR 3620 Introduction to Robotics (3) _____
*ENGR 3830 Principles of Eng Design (3) _____
*ENGR 3910 Eng Design & Junior Project (2) _____
*ENGR 4030 Quality Engineering (3) _____
*ENGR 4910 Capstone Design Project I (2) _____
*ENGR 4920 Capstone Design Project II (3) _____
Choose one from the following:
*ENGR 3930 Engineering Cooperative Exp (3) _____
*ENGR 3950 Engineering Internship (3) _____
*ENGR 3920 Eng Undergraduate Research (3) _____

ELECTIVES (7)

Choose from the following:
*ENGR 2520 Linear Circuits II (4) _____
*ENGR 2370 Logic Design (3) _____
*ENGR 3110 Electronics (3) _____
*ENGR 3850 Digital Systems Design (3) _____
*BUSS/ENGR 3945 Intro to Data Analytics (4) _____
*ENGR 4420 Decision and Risk Analysis (3) _____
*ENGR 4810 Discrete Sys Modeling & Sim (3) _____
*ENGR 4890 Special Topic in Engineering (3) _____
*BUSS 3810 Internet of Things (3) _____
*BUSS 4810 System Analysis & Design (3) _____
*BUSS 4950 Entrepreneurship (3) _____
*BIOL 3150 Environmental Science (3; Sp) _____
*CHEM 1520 Chemistry II (4) _____
KINS 3300 Biomechanics _____

TOTAL PROGRAM

General Education	44
Engineering Core	74

Course taken:		Major Electives	7
		TOTAL	125