

COLLEGE OF ENGINEERING, INDUSTRIAL AND SYSTEMS ENGINEERING

CHECKSHEET - CLASS OF 2008, B.S. I.S.E.

Freshman Year – 2004-2005 (32 semester hours)

Fall		Spring	
ENGL 1105 English I	3__	ENGL 1106 English II	3__
CHEM 1074 Gen Chem for Engineers	3__	PHYS 2305 Found of Physics I w/lab	4__
CHEM 1084 Gen Chem Lab for Engineers	1__	MATH 1206 Calculus II	3__
MATH 1114 Linear Algebra	2__	MATH 1224 Vector Geometry	2__
MATH 1205 Calculus I	3__	ENGE 1104 Exploration Digital Future or	2__
ENGE 1024 Engineering Exploration	2__	ENGE 1114 Exploration Engr Design	2__
Elective	1__	Elective	3__
Total	15		17

Sophomore Year - 2005-2006 (33 semester hours)

Fall		Spring	
PHYS 2306 Found of Physics II w/lab	4__	MATH 2214 Differential Equations	3__
MATH 2224 Multivariable Calculus	3__	STAT 4105 Theoretical Statistics	3__
ISE 2014 Engineering Economy	2__	ISE 2204 Manufacturing Processes	2__
ENGE 2314 Eng Problem Solving w/ C++	2__	ISE 2214 Manufacturing Processes Lab	1__
ENGE 2344 Computer-Aided Drafting	1__	ISE 2404 Deterministic Oper Research	3__
ESM 2104 Statics	3__	ESM 2304 Dynamics	3__
		MSE 2034 Materials Engineering	3__
Total	15		18

Junior Year - 2006-2007 (36 semester hours)

Fall		Spring	
STAT 4706 Statistics for Engineers	3__	ISE 3214 Fac Plan and Mat Handling	3__
ISE 3014 Work Meas and Meth Eng	3__	ISE 3424 Discrete-Event Comp Sim	3__
ISE 3414 Probabilistic Oper Research	3__	ISE 3624 Industrial Ergonomics	3__
ISE 3614 Intro to Human Factors Eng	3__	ISE 3024 Data Mgt for IEs	3__
ECE 3054 Electrical Theory	3__	Electives	6__
Elective	3__		
Total	18		18

Senior Year - 2007-2008 (35 semester hours)

Fall		Spring	
ISE 4005 Project Mgmt & Sys Design	3__	ISE 4006 Project Mgmt & Sys Design	2__
ISE 4204 Prod Plan & Inv Control	3__	ISE 4304 Global Issues in Ind Mgmt	3__
ISE 4404 Statistical Quality Control	3__	Electives	12__
Electives	9__		
Total	18		17

There are no hidden prerequisites for any course on this checksheet. Students who did not complete 2 units of a foreign language in high school must earn 6 credit hours of a college level foreign language in addition to the 136 credits normally required for graduation. A minimum of 136 hours is required for graduation. An in-major (all ISE classes) and overall GPA of 2.0 is required for graduation.

Having completed 72 hours (including transfer, advanced placement, advanced standing, and credit by examination), "satisfactory progress" toward a BS ISE degree will include the following minimum criteria: a GPA of 2.0 or better; completion of ENGE 1104 or ENGE 1114, ISE 2014, ISE 2204, ISE 2214, MATH 2214, and MATH 2224; and enrollment in 12 or more credits of ISE classes per year. A listing of courses which the College of Engineering does not allow to be used to fulfill degree requirements can be found in the ISE Undergraduate Handbook.

ISE 3014, 4005, and 4006 fulfill the Writing Intensive Core requirements. ISE 4304 satisfies the Core Area 7 requirement. Core Areas 1, 4 and 5 are satisfied through the required set of courses. Core Areas 2, 3 and 6 are satisfied through selection of elective courses, by taking 6 credits of Core Area 2 electives, 6 credits of Core Area 3 electives, and 1 credit of Core Area 6 elective. Students must also take 6 credits of Engineering Science Electives, 6 credits of Non-Technical Electives, 3 credits of Technical Elective, and 6 credits of ISE Technical Elective.

The ISE 4005-4006 sequence is the capstone design experience for ISE majors and must be taken as a fall-spring sequence.

The ISE Department requires a C- or better in all ISE classes that are prerequisites for other ISE classes.