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CURRICULUM PROPOSAL FORM 1999-2000

NON-GENERAL EDUCATION PROCESS A

*DEADLINES: Deadline dates for 1999/2000 submissions: Regular proposals: October 22, 1999 to be implemented in Fall 2000; Short-Term proposals: December 10, 1999 to be implemented in Fall, 2000; Regular proposals February 18, 2000 to be implemented in Spring 2001; March 24, 2000 for short-term courses to be implemented in Spring 2001

PROPOSAL TITLE: Correction and Changes to Course Prerequisites

SPONSOR(S): College of Engineering Curriculum Committee

DEPARTMENT:

COLLEGE: Engineering

IF LAS CHECK ONE: History/Humanities Math/Science Social/Behavioral Sciences

Check one: Undergraduate Graduate

THE ATTACHED *NON-GEN-ED* PROPOSAL IS BEST DESCRIBED BY THE ITEM(S) CHECKED.

New non-gen-ed course

Short-term non-gen-ed course

Minor curricular changes (fewer than three) to:

existing non-gen-ed course

non-gen-ed degree requirements

major

minor, specialization, concentration, track certificate program

DEPARTMENT

(Signature indicates approval) Ravi Babu Ramachandran 2/24/00

Dept. Curriculum Chair/Date Steve Chew 2/24/00

Dept. Chairperson/Date

ACADEMIC DEAN

Approved Not Approved Comments:

Dean's Signature/Date [Signature] 2/24/00

COLLEGE CURRICULUM COMMITTEE
 Date of open hearing (if necessary) 2/25/01 Approved Not Approved
 Comments:
 Signature of College Chair/Date: [Signature] 2/25/01

UNIVERSITY CURRICULUM COMMITTEE
 Date Received/Processed 4/20/01
 Comments:
 Curriculum Chair Signature: [Signature] Date Announced At Senate 5-8-01

EXECUTIVE VICE PRESIDENT/PROVOST
 Approved Not Approved If no, reasons are as follows:
 Student Credit Hours: _____ Faculty Load Hours: _____ Equalized Credit Hours: _____
 Official Copy & Approval Sheet Filed (Date): _____ Executive VP/Proved Signature/Date 5/15/01
[Signature]

REGISTRAR
 Date Approved Course Description Required 5/23/01
 Hegis Taxonomy & Course Number Assigned _____
 Registrar Signature/Date [Signature]

NOTIFICATION FORWARD
 _____ Senate Curriculum Committee Chairperson _____ Academic Dean(s)
 _____ Department Chairpersons _____ Registrar _____ Sponsor(s)

Minor Change

1. Details:

- a) **Change:** Correction and changes to course prerequisites.
- b) **Sponsor:** College of Engineering Curriculum Committee
- c) **Credit Hours:** N/A
- d) **Course Level:** Undergraduate
- e) **Curricular Effect:** All changes are compliant and consistent with previously approved curriculum changes in the engineering programs during the last few years, as promulgated through the curriculum process.
- g) **Suggested Time Of Implementation:** These changes to course prerequisites should be effective as soon as possible.
- h) **Resources:** There are no resource issues

2. Rationale:

The proposed changes correct errors and bring the prerequisite requirements into line with our current program. These prerequisite problems have become evident as the Registrar's Office has begun enforcing prerequisites.

Course		Existing Pre/COREquisite		New Pre/COREquisite	
Number	Title	Number	Title	Number	Title
0901.282	Manufacturing Processes	0901.281	Material Science	0901.281	Material Science
		1902.200	Physics I		
		1906.105	Adv. Coll. Chem. I		
0910.291	Dynamics	0901.271	Statics	0901.271	Statics
		1902.200	Physics I	1902.200	
0910.241	Machine Design	0910.291	Dynamics	0901.272	Solid Mechanics
		0901.272	Solid Mechanics		
0910.341	Mech. Des. And Synthesis	0910.241	Machine Design	0910.291	Dynamics
0910.342	Quality & Reliability	1701.242	Math For Eng. Anal. II	1701.242	Math For Eng. Anal. II
0910.201	Vibrations	0901.271	Statics	0910.291	Dynamics
		1902.200	Physics I		
		0910.291	Dynamics		
0901.341	Fluid Mechanics			1701.235	Math For Eng. Anal. I
				1902.200	Physics I
0906.201	Prin. Chem. Proc. I	1906.101	Chemistry II	1906.105	Adv. College. Chem. I
		1701.131	Calculus II	1701.131	Calculus II
				1902.200	Physics I
0906.302	Prin. Chem. Proc. II	0906.201	Prin. Chem. Proc. I	0906.201	Prin. Chem. Proc. I
		1906.101	Chemistry II		
		1701.131	Calculus II	1906.106	Adv. College. Chem. II
0906.309	Proc. Fluid. Transp.	0901.341	Fluid Mechanics I	0901.341	Fluid Mechanics
		0906.201	Prin. Chem. Proc. I		
		0906.302	Transfer Processes II	0906.302	Princ. Chem. Proc II
0906.310	ChE. Thermodynamics	0906.302	Transfer Processes II	0906.302	Princ. Chem. Proc II
0906.311	Transf. Proc. - Heat	1701.335	Math for Engr. Analysis I	0901.341	Fluid Mechanics (CoReq)
		0901.341	Fluid Mechanics I	0906.302	Prin. Chem. Proc. II OR
		1701.236	Math For Eng. Anal. II	0910.311	Thermodynamics I
0906.312	Transf. Proc. - Mass	0901.341	Fluid Mechanics	0901.341	Fluid Mechanics
		1701.335	Math for Engr. Analysis I	0906.302	Prin. Chem. Proc. II
		0906.302	Transfer Processes II	1701.236	Math for Eng. Analysis II
0906.314	Separation Processes	0906.302	Transfer Processes II	0906.309	Proc. Fluid Transport
		0906.309	Process Fluid Transport		
		0906.312	Trans. Proc. - Mass		
		1701.335	Math for Engr. Analysis I		
		1908.400	Physical Chem. I		
		1701.236	Math For Eng. Anal. II		

Number	Course Title	Existing Pre/COREquisite		New Pre/COREquisite	
		Number	Title	Number	Title
0906.316	Chem. Reaction Eng.	0901.341	Fluid Mechanics I	0906.309	Proc. Fluid Transp.
		0906.311	Transf. Proc. - Heat	0906.311	Transf. Proc. - Heat
		0906.312	Transf. Proc. - Mass	0906.312	Transf. Proc. - Mass
		1701.236	Math for Engr. Analysis I	1907.200	Organic Chemistry I
0906.401	Chem. Proc. Comp. Desg	0906.311	Transf. Proc. - Heat	0906.316	Chem. React. Eng.
		0906.312	Transf. Proc. - Mass	0906.314	Separation Proc.
		0901.341	Fluid Mechanics I	0906.310	ChE Thermodynamics
		0906.309	Process Fluid Transport		
0906.402	Transport Phenomena	0906.401	Chem. Proc. Comp. Desg	0906.316	Chem. React. Eng.
		0906.402	Transport Phenomena	0906.314	Separation Proc.
0906.403	Unit Operations	0906.402	Transport Phenomena	0906.401	Chem. Proc. Comp. Desg.
		0906.311	Transf. Proc. - Heat	0906.402	Transport Phenomena
		0906.312	Transf. Proc. - Mass		
		0906.310	ChE. Thermodynamics		
		0906.401	Chem. Proc. Comp. Desg		
0906.405	Proc. Dyna. & Control	0906.401	Chem. Proc. Comp. Desg	0906.401	Chem. Proc. Comp. Desg.
		0906.402	Transport Phenomena	0906.402	Transport Phenomena
0906.406	Chem. Plant Design	0906.401	Chem. Proc. Comp. Desg	0906.401	Chem. Proc. Comp. Desg.
		0906.402	Transport Phenomena	0906.402	Transport Phenomena
0906.441	Proc. Safety	1906.100	Chemistry I	1906.100	Chemistry I OR
		0901.341	Fluid Mechanics I	1906.105	Adv. College Chemistry I
		0910.311	Thermodynamics I	0901.341	Fluid Mechanics
		0906.310	ChE. Thermodynamics	0906.310	ChE. Thermodynamics
0906.442	Fluid Flow Proc-Manuf	0901.341	Fluid Mechanics I	0901.341	Fluid Mechanics
0906.462	Bioproc. Eng.	0906.401	Chem. Proc. Comp. Desg	1906.105	Adv. College Chem I OR
		0906.402	Transport Phenomena	1906.100	College Chem I
0906.463	Envr. Proc. Desg.	0906.401	Chem. Proc. Comp. Desg	0906.314	Separation Proc.
		0906.402	Transport Phenomena	0906.316	Chem. React. Eng.
0906.464	Adv. Separation Tech	0906.401	Chem. Proc. Comp. Desg	0906.314	Separation Processes
0906.465	Adv. Design of Reactors	0906.402	Transport Phenomena	0906.316	Chem. Reaction Eng.
0906.466	Polymer Processing	0901.281	Material Science	0906.316	Chem. Reaction Eng.
		0906.402	Transport Phenomena	0901.281	Material Science
		0906.310	ChE. Thermodynamics	0906.310	ChE Thermodynamics
0906.468	Prin. Electrochem. Eng.	1906.100	Chemistry I	1906.100	Chemistry I OR
		1701.131	Calculus II	1906.105	College Chem I
0906.470	Prin. Air Pollut. Control	1906.100	Chemistry I	1906.100	Chemistry I OR
		1701.131	Calculus II	1906.105	Adv. College Chem I

Number	Course Title	Existing Pre/COREquisite		New Pre/COREquisite	
		Number	Title	Number	Title
0906.472	Prin. Biomed Proc.	1906.100 1701.131	Chemistry I Calculus II	1906.100 1906.105	Chemistry I OR Adv. College Chem I
0906.474	Adv. In Particle Tech	1906.100 1701.131	Chemistry I Calculus II	1906.100 1906.105	Chemistry I OR Adv. College Chem I
0906.476	Prin. Biospe. Proc.	0906.314	Separation Processes	0906.314	Separation Processes
0906.477	Fund. Eng. Proc. Analysis & Exp. Design				Senior Standing
0906.479	Industrial Process Pathways			0906.316	Chemical Reaction Eng.
0906.480	Project Optimization			0901.302	Junior Eng. Clinic II
0906.482	Adv. Process Analysis				Senior Standing
0906.482	Fundamentals of Food Eng.			1906.100 1906.105 1701.131	Chemistry I OR Adv. College Chem I Calculus II
0906.572	Biomed. Process Eng.	G901			Must meet major requirement
0908.210	Intro. To Envr. Engr	1701.131 1902.200 1906.101 1906.106	Calculus II Physics I Chemistry II Adv. College Chem II	1701.131 1906.100 1906.105	Calculus II Chemistry I OR Adv. College Chem I
0908.301	Civil Eng. Materials	0901.281	Material Science	0901.272	Solid Mechanics
0908.305	Civil Eng. Systems	2204.102 0908.301	Intro to Econ-A Microecon Perspective CE Materials	1701.236	Math for Eng. Analysis II
0908.311	Envr. Eng. I	0901.341 1907.300	Fluid Mechanics I Organic Chemistry I	0901.341	Fluid Mechanics
0908.342	Water Resources	0901.341	Fluid Mechanics	0901.341	Fluid Mechanics
0908.351	Geotechnical	0901.341 0908.301 0901.272	Fluid Mechanics CE Materials Solid Mechanics	0901.341 0908.301 0901.272	Fluid Mechanics CE Materials Solid Materials
0908.421	Envr. Eng. II			0901.341 1907.200	Fluid Mechanics Organic Chemistry I
0908.422	Adv. Eng.	0908.421	Envr. Engr. II	0908.421	Envr. Eng II
0908.431	Solid & HW	1907.200 1907.300	Physics I Organic Chemistry I	1907.200	Organic Chemistry I
0908.432	GW	0901.341 1907.300 1907.200	Fluid Mechanics Organic Chemistry I Physics I	0901.341 1907.200	Fluid Mechanics Organic Chemistry I
0908.443	Adv. Water Resources	0908.342	Water Resources		Water Resources
0908.461	Transportation	2204.102	Intro to Econ-A Microecon Perspective	1701.236	Math for Eng. II

Course Number	Course Title	Existing Pre/CORequisite		New Pre/CORequisite	
		Number	Title	Number	Title
0901.102	Fresh Eng Clinic II	1906.100	College Chem I	0901.101	Fresh Eng Clinic I
		1906.105	Adv. College Chem I		
		0901.101	Fresh Eng Clinic I		
0901.201	Sophomore Eng Clinic I	1501.111	College Comp I	0901.102	Fresh Eng Clinic II
		1902.200	Physics I		
		0704.103	Computer Science & Programming		
		1701.235	Math for Eng Analysis I		
0901.401	Senior Engineering Clinic I	0901.302	Junior Engineering Clinic II	0901.302	Junior Engineering Clinic II
		0909.413	Prin NonDestructive Eval		
0901.402	Senior Engineering Clinic II	0901.401	Senior Engineering Clinic I	0901.401	Senior Engineering Clinic I
		0901.201	Sophomore Engineering Clinic I		
		1501.112	College Comp II		
		0909.498	Seminar: Eng Frontiers		
		0909.413	Prin NonDestructive Eval		