THE CITY COLLEGE –SCHOOL OF ENGINEERING July 11, 2013
EARTH SYSTEM SCIENCE & ENVIRONMENTAL ENGINEERING
Academic Evaluation Fall 2013 -Spring 2014

Name:	I.D. No:	Date:

Math 20100 Calculus I Pre: Math 19500 (C min.) 3 cr.		**Chem 10301** General Chemistry I Pre: Math 19500 4 cr.	**Engl 11000** Freshman Composition 3 cr.	**Engr 10100**[7] Engineering Design Pre/Co: Math 19500 (C min) 1 cr.	**Liberal Arts**[5] 3 cr.
Math 20200 Calculus II Pre: Math 20100 (C min) 3 cr.	**Phys 20700** General Physics I Pre/Co: Math 20200 4 cr.	**Chem 10401** General Chemistry II Pre: Chem 10301 4 cr.	**CSc 10200** Introduction to Computing Pre: Math 19500 (C min.), Pre/Co: Math 20100 (C min) 3 cr.		**Engr 10610** Earth System Science & Engr 4 cr.
Math 20300 Calculus III Pre: Math 20200 (C min) 4 cr.	**Phys 20800** General Physics II Pre: Phys 20700 Pre/Co: Math 20300 4 cr.	**Engr 10300** Analysis Tools for Engineers Pre: Math 20100 (C min) 2 cr.	**EAS 21700** Systems Analysis of the Earth Pre: EAS 10600 or Engr 10610, Phys 20300 or Chem 10300 4 cr.		**Engl 21007** Writing for Engineering Pre: Eng 11000 3 cr.
Math 39100 Differential Equations Pre: Math 20300 3 cr.	**Math 39200** Lin. Algeb & Vector Anal. Pre: Math 20300 3 cr.	**Restricted Engineering Elective** **Engr 20400** or **CE 23100** Electrical Circuits Pre/Co: Phys 20800 (C min) Math 20300 (C min) Structural Mechanics Pre: Phys 20700 (C min.) Math 20200 (C min) & CSc 10200 3 cr.	**Restricted Elective I Thermo** **Engr 23000** or **ChE 22900** Thermo I Thermo Pre: Phys 20700 (C min.) Math 20200 (C min.) (Spring Only) Pre: Chem10401 Phys 20700 3 cr.		**CE 26400** CE Data Analysis Pre: Csc 10200 Pre/Co: Math 20300 (C min) 3 cr.
Bio 10100 Bio Fundamentals I 4 cr.	**Engr 30100** Introd. to Remote Sensing Pre: Phys 20800 Math 20300 & Engr 10300 or Csc 10200 3 cr.	**Fluid Mechanics** (Select One) **ME 35600** Fluid Mechanics Pre: Math 39100 (C min) Phys 20800 (C min) Pre/Co: Math 39200 **ChE 34100** Transport Phen I (Fall Only) Pre: Math 39100 (C min) ChE 22900 **CE 35000** Fluid Mechanics Pre: CE 23100 (C min) Pre/Co: Math 39100 3 cr.	**Restricted Elective II** (Select One) **ME 43000** Thermal Sys. Anal. Pre: Engr23000 ME35600 **Chem 26100** Organic Chem Pre: Chem10401 (C min) **ChE 33000** Thermo II (Fall Only) Pre: ChE22900 CE26400 Math39100 3 cr.		**Liberal Arts**[5] 3 cr.
Technical Elective [4] See the list below 3 cr.	**Engr 59910** Geographic Information Sci. Pre: Math 39200 3 cr.	**CE 36500** Hydrology & Hydraulic Engr Pre: CE 350000 (C min) or ME 35600 or ChE 341000 3 cr.	**CE 37200** Environmental Impact Assessment Pre: CE 26400, Chem 10401 (C min) & [CE 35000 (C min) or ME 35600 or ChE 34100] 3 cr.		**Liberal Arts**[5] 3 cr.
Technical Elective [4] See the list below 3 cr.	**Technical Elective** [4] See the list below 3 cr.	**CE 47400** Environmental Engineering Pre: CE 36500 & CE 37200 3 cr.	**Engr 59869** ESE Design I (Fall Only) Pre: Seniors Only[9] 2 cr.	**Liberal Arts**[5] 3 cr.	**Liberal Arts**[5] (20000 or higher) 3 cr.
Technical Elective[4] See the list below 3 cr.	**Technical Elective**[4] See the list below 3 cr.	**Technical Elective** [4] See the list below 3 cr.	**Engr 59870** ESE Design II (Spring Only) Pre: Engr 59869 3 cr.		**Liberal Arts**[5] (20000 or higher) 3 cr.

Engineering Technical Electives

ChE34200	Transport Phenomena II
CE40100	Fundamentals of Engineering
CE45100	Environ. Water Resources
CE57100	Water Quality Analysis
EE20500	Linear System Analysis I
EE31100	Probability and Statistics
EE33000	Electromagnetics
EE35700	Electrical Power
EE42800	Photonics Lab
EE45500	Elements of Power Sys
EE46200	Photonics Engineering
EEG6800	Optical Remote Sensing
ME32200	Computer Methods in Engr
ME43300	Heat Transfer
ME47100	Energy Systems Design
ME53600	Energy Conversion
ME54700	Environmental Control
ME55600	Advanced Fluid Mechanics
ME 53700	Turbomachinery Design
ENGR 55400	Reactor Physics and Engineering
ENGR 55500	Reactor Thermal Hydraulics
ENGR 55600	Nuclear Reactor Design, Operation and Safety
ENGR 59950	Special Topics in Earth System and Environmental Engr
ENGR 5100X	Spec Projects in ESE
ENGR 55680	Special Topics in RS
ENGR 59803	Industrial Ecology

Science Technical Electives

EAS30800	Earth Syst Mod/Databases
EAS31003	EAS Independent Study
EAS31700	Satellite Meteorology
EAS31800	Fundamentals of Atmos Sci
EAS32800	Global Hazards
EAS34500	Hydrology
EAS36500	Coastal and Ocean Proc
EAS41300	Environmental Geochem
EAS43900	Mineral/Energy Resources
EAS 48800	Climate Change
EAS56100	Geophysics
EAS 44600	Ground Water Hydro
CHEM24300	Quant Analysis
CHEM26100	Organic Chemistry I
CHEM26300	Organic Chemistry II
CHEM27200	Organic Chemistry Lab
CHEM33100	Physical Chemistry Lab I
CHEM33200	Physical Chemistry II
CHEM40600/01	Environmental Chem.
CHEM40700	Environ Organic Chem
CHEM43400	PChem & Chem Instr Lab
PHYS32100	Modern Physics
PHYS32300	Quantum Mechanics
PHYS45200	Optics

DEGREE REQUIREMENTS	YES	NO	COMMENTS				REQ
1. Satisfied six Technical Electives					GRA:		**2.0+**
2. Satisfied All General Education/ Liberal Arts Req.					QPA:		**0+**
3. Fulfilled 36 credit (30000+ ESE Courses) Residency Req.					Credits:		**127**
4. Satisfied all Restricted Fluid Mech. & Technical Electives							
5. **Has satisfied all degree requirements**							

PROGRAM CHANGES & COURSE SUBSTITUTIONS					ADDITIONAL COMMENTS & OBSERVATIONS
Course #	**Substitution #**	**Comments**	**Permitted by**		

Student Signature:_____ Program Admin:_____

Courses in shaded area (▭) require a minimum passing grade of "C".

1. "X out" each box containing a course that has been successfully completed . Note, the "C" minimum requirement for certain courses. **X**
2. Circle each course you have taken or are currently enrolled in for which you have not received the required grade or higher. **O**
3. Fill in information in all areas that apply and sign. A Program Administrator (ABET Specialist, Program Director) must sign before the formal process can begin.