KEAN UNIVERSITY – COLLEGE OF NATURAL, APPLIED & HEALTH SCIENCES
B.S. IN SUSTAINABILITY SCIENCE
124 S.H.
3.25 G.P.A. Graduation Requirement [1]

EFFECTIVE DATE: Fall 2013 **START TERM: _____**

NAME:		TRANSFER INSTITUTIONS (X) Credits:	
STUDENT ID#:		In Progress	
GENERAL EDUCATION: 35 Semester Hours (S.H.)		**ACADEMIC MAJOR REQUIREMENTS: 37 S.H.*** **	
Foundation Requirements 13 S.H.		SUST 1000 Introduction to Sustainability	3
G.E. 1000 Transition to Kean*	1	SUST 1004 First Year Seminar on Sustainability	1
ENG 1030 Composition*	3	SUST 2000 Mathematical Principles for Sustainability	3
MATH 1054 Precalculus**	3	SUST 2004 Second Year Seminar on Sustainability	1
COMM 1402 Speech Communication*	3	SUST 2006 Mathematica Applications for Sustainability	3
GE 2024 Research & Technology*	3	SUST 2009 Applied Physics for Sustainability	4
		SUST 2200 Introduction to Laws and Sustainability	3
Disciplinary & Interdisciplinary Distribution Req:		SUST 2203 Intercultural Communication for Sustainability	3
Humanities: 6 S.H. (from different areas)		SUST 3000 Climate Science and Sustainability	4
ENG 2403 World Literature*	3	SUST 3001 Applied Statistics for Sustainability	4
Select one course with advisement from areas below:		SUST 3003 Third Year Seminar on Sustainability	1
Fine Arts/Art History	3	SUST 4000 Technologies for Sustainability	3
Foreign Languages (Must take I and II for credit)	3	SUST 4001 Essential Readings in Sustainability	3
Interdisciplinary	3	SUST 4003 Fourth Year Seminar on Sustainability	1
Music or Theatre	3		
Philosophy or Religion	3	**PROGRAM FOCUS-RELATED ELECTIVES 19 S.H.**	
		To be selected with advisement from approved program list	
Social Sciences: 6 S.H. (from different areas)		**maintained in the Center for Sustainability Studies.**	
HIST 1000 Civil Society in America* ***or***		**Maximum of 3 S.H. of SUST courses count toward degree.**	
HIST 1062 Worlds of History: Traditions and Encounters*	3		
Select one course with advisement from areas below:			
Economics or Geography	3		
Interdisciplinary	3		
Political Science	3		
Psychology	3		
Sociology or Anthropology	3		
Science and Mathematics: 7 S.H.			
MATH 1016 Statistics**	3		
CHEM 1083 Chemistry I****	4		
G.E. and Major Capstone: 3 S.H., *****			
SUST 4300 Independent Practicum in Sustainability Science	3		
ADDITIONAL REQUIREMENTS: 30 S.H.			
BIOS 1200 Introduction to Biology	4		
BIOS 2201 Diversity & Interactions	4		
CHEM 1084 Chemistry II	4		
DSN 2200 Design for Sustainability II	3		
GEOS 1100 Introduction to Earth and Geographical Systems	4	**FREE ELECTIVES: 3 S.H.**	
GEOS 2101 Geo-hydro Systems	4		
MATH 2415 Calculus I	4	**Other Transfer:**	
SOC 3420 Environment and Society	3	**Special Notes: [1] 2.50 for students admitted prior to autumn 2013**	
		***G.E. required course**	
		****Course required by Major**	
		*****All Major courses require a grade of B or better**	
		******Must earn a grade of C or better to advance to CHEM 1084**	
		TOTAL CREDITS:	
		Advisor:	
		Advisor Signature:	

B.S. IN SUSTAINBILITY SCIENCE
APPROVED FOCUS-RELATED ELECTIVES*

*Subject to change as new courses are approved and old courses are eliminated.
Independent Research, Independent Study, and/or Special Topics courses not listed, but will be approved on an individual basis if appropriate. Any combination of 19 semester hours may be selected to fulfill graduation requirements; however, students are strongly encouraged to select courses only after consultation with and approval of their advisor. Failure to do so may result in result in a less than optimal program experience.

EARTH SYSTEMS FOCUS [12]		**HUMAN SYSTEMS FOCUS** [12]	
Atmosphere	S.H.	*Communication*	S.H.
CHEM 2180: Principles of Organic Chemistry [1]	4	COMM 2920: Introductory Journalism	3
CHEM 2283: Quantitative Analysis	4	COMM 3216: International Business Communication	3
CHEM 2581: Organic Chemistry I [2]	3	COMM 3510: Persuasive Communication	3
CHEM 2582: Organic Chemistry II [2]	3	COMM 3590: Business and Professional Communication	3
CHEM 2583: Organic Chemistry Laboratory and Recitation I [2]	2	COMM 3660: Public Relations	3
CHEM 2584: Organic Chemistry Laboratory and Recitation II [2]	2	COMM 3675: Media Advertising	3
CHEM 3581: Biochemistry	3	COMM 3690: Health Communication	3
ES 3000: Global Climate Change and Society [3]	4	COMM 3700: Community Building and Advocacy	3
ES 3200: Geographic Information Systems in Geoscience	4	COMM 3910: Advanced Journalism	3
ES 3320: The Atmosphere in the Earth System	4	COMM 3915: Feature Writing	3
METR 1300: Introduction to Meteorology	4	COMM 4620: Public Relations Writing	3
METR 2300: Climatology	3	ENG 2005: Advanced Composition	3
METR 2301: Climatology Laboratory	1	ENG 2010: Creative Writing	3
METR 2310: General Meteorology	4	ENG 2020: Writing	3
METR 3360: Air Pollution	3	ENG 2101: Structure and Origins of the English Language	3
METR 3369: Planetary Atmospheres	4	ENG 3030: Writing Arguments	3
PHYS 1050: Energy, Physics & the Environment [4]	3	ENG 3915: Feature Writing	3
PHYS 2095: Physics I [5]	4	ENG 3041: Writing in the Social Sciences	3
SUST 2008: Introduction to Composting [6]	4		
SUST 2100: Systems Modeling for Sustainability [7]	3	*Business*	
		ACCT 2200: Principles of Accounting	3
Hydrosphere		ACCT 3700: Accounting for Sustainability	3
BIO 2650: Introduction to Marine Biology	4	ECO 1020: Principles of Economics I	3
BIO 3000: Marine Biology	4	ECO 1021: Principles of Economics II	3
BIO 3305: Principles of Microbiology [8]	4	ECO 3730: Economic Geography	3
BIO 4415: Ichthyology	4	ECO 3840: Population Economics	3
BIOS 3050: Field Biology: Marine Systems	4	MGS 1030: Principles of Management	3
CHEM 2180: Principles of Organic Chemistry [1]	4	MKT 2500: Principles of Marketing	3
CHEM 2581: Organic Chemistry I [2]	3	MKT 3510: Consumer Behavior	3
CHEM 2582: Organic Chemistry II [2]	3	MKT 4240: Contemporary Issues in Marketing	3
CHEM 2583: Organic Chemistry Laboratory and Recitation I [2]	2	SUST 2201: Economics for Sustainability	3
CHEM 2584: Organic Chemistry Laboratory and Recitation II [2]	2	SUST 3202: Accounting for Sustainability	3
ES 3000: Global Climate Change and Society [3]	4	SUST 3203: Finance for Sustainability	3
ES 3330: The Hydrosphere in the Earth System	4		
GEOL 3266: Hydrology	4	*Infrastructure*	
OCEN 2400: Introduction to Oceanography	4	DSN 2100: Design for Sustainability I	3
OCEN 3400: Global Change and the Ocean	3	GEOS 3200: Intro to Geographic Information Systems	4
OCEN 3463: Marine Science	4	GEOS 4201: Urban Geographic Systems	4
OCEN 3600: Coral Reefs and Coastal Systems	4	HED 3635: Introduction to Public Health	3
OCEN 4454: Marine Geology	4	HIST 4361: The American City	3
OCEN 4455: Chemical Oceanography	4	PA 2000: Introduction to Public Administration	3
OCEN 4470: Physical Oceanography	4	REC 3500: Commercial Recreation and Tourism	3
OCEN 4600: Marine Conservation	4	REC 3800: Environmental Recognizance	3
OCEN 4601: Field Methods in Marine Research	4	REC 3810: Recreation and the Environment	3
OCEN 4602: Marine Resource Management	3	SUST 2008: Introduction to Composting	4
PHYS 1050: Energy, Physics & the Environment [4]	3	SUST 3200: Environmental Health and Safety for Sustainability	3
PHYS 2095: Physics I [5]	4		
SUST 2008: Introduction to Composting [6]	4		
SUST 2100: Systems Modeling for Sustainability [7]	3		

Geosphere		*Social*	
BIO 3305: Principles of Microbiology [8]	4	ANTH 1800: Cultural Anthropology	3
CHEM 2180: Principles of Organic Chemistry [1]	4	ANTH 2820: Urban Anthropology	3
CHEM 2491: Inorganic Chemistry	3	ANTH 3830: Anthropology of North American Indian Cultures	3
CHEM 2581: Organic Chemistry I [2]	3	HIST 3852: History of Science	3
CHEM 2582: Organic Chemistry II [2]	3	HIST 3853: Charles Darwin: A Life and Times	3
CHEM 2583: Organic Chemistry Laboratory and Recitation I [2]	2	PHIL 2300: Introduction to Ethics	3
CHEM 2584: Organic Chemistry Laboratory and Recitation II [2]	2	PHIL 2505: Critical Thinking	3
ES 3310: The Geosphere in the Earth System	4	PHIL 3800: Environmental Philosophy	3
GEOL 1200: Introduction to Geology	4	PS 1010: Introduction to Politics: Elements of Politics	3
GEOL 1201: Geologic Hazards	3	PSY 1000: General Psychology	3
GEOL 1202: Geologic Hazards Laboratory	1	PSY 3420: Environmental Psychology	3
GEOL 1205: Mineral and Fossil Fuel Resources	3	SOC 1000: Introduction to Sociology	3
GEOL 1210: Geology of the National Parks	3	SOC 2000: Introduction to Social Justice	3
GEOL 2262: Geology and the Environment	3	SOC 2500: Introduction to Global Studies	3
GEOL 2263: Geology and the Environment Lab	1	SOC 3150: Urban Sociology	3
GEOL 3261: Mineralogy	4	SOC 3410: Social Movements	3
GEOL 3263: Structural Geology	4	SOC 4401: Social Change	3
GEOL 3265: Geomorphology	4	SUST 2202: Religion and Sustainability	3
GEOL 3281: Field Geology	2	SUST 3201: Policies and Sustainability	3
PHYS 2095: Physics I [5]	4		
SUST 2008: Introduction to Composting [6]	4		
SUST 2100: Systems Modeling for Sustainability [7]	3		
Biosphere			
BIO 2400: Genes, Organisms, Populations	4		
BIO 2500: Principles of Botany	4		
BIO 3305: Principles of Microbiology [8]	4		
BIO 3400: Zoology: Form and Function	4		
BIO 3434: Animal Behavior	4		
BIO 3513: Morphology and Evolution of the Plant Kingdom	4		
BIO 3535: Field Botany	3		
BIO 3614: Principles of Ecology	4		
BIO 4575: Plant Physiology	4		
BIO 4615: Applied Ecology [2]	4		
BIOS 3051: Field Biology: Terrestrial Systems	4		
BIOS 3201: Biodiversity [9]	3		
BIOS 3230: Urban Ecology [10]	4		
BIOS 3250: Medicinal Botany	3		
BIOS 3720: Entomology	4		
BIOS 4210: Conservation Biology [11]	4		
BIOS 4435: Behavioral Ecology	3		
BIOS 4575: Plant Physiology	4		
BIOS 4600: Plant-Animal Interactions	4		
BIOS 4615: Applied Ecology [2]	4		
CHEM 2581: Organic Chemistry I [2]	3		
CHEM 2582: Organic Chemistry II [2]	3	[1] Students may not receive credit for CHEM 2180 and	
CHEM 2583: Organic Chemistry Laboratory and Recitation I [2]	2	CHEM [2581, 2582, 2583, and 2584]	
CHEM 2584: Organic Chemistry Laboratory and Recitation II [2]	2	[2] Credit for these courses awarded once only	
GEOG 2020: Conservation of Natural Resources	3	[3] Credit for this course awarded once only.	
GEOS 4103: Environmental Hazards	4	[4] Credit for this course awarded once only.	
PHYS 1050: Energy, Physics & the Environment [4]	3	[5] Credit for this course awarded once only.	
SELS 3101: Atmospheric Systems	4	[6] Credit for this course awarded once only.	
SUST 2008: Introduction to Composting [6]	4	[7] Credit for this course awarded once only.	
SUST 3100: Urban Ecology and Sustainability [10]	3	[8] Credit for this course awarded once only.	
SUST 3102: Biodiversity and Sustainability [9]	3	[9] Courses are equivalent; credit awarded once only.	
SUST 4100: Conservation Biology and Sustainability [11]	3	[10] Courses are equivalent; credit awarded once only.	
SUST 4101: Natural Resource Management and Sustainability	3	[11] Courses are equivalent; credit awarded once only.	
		[12] Credit awarded once only for GE courses.	