KEAN UNIVERSITY – COLLEGE OF NATURAL, APPLIED & HEALTH SCIENCES (77100) B.S. IN SUSTAINABILITY SCIENCE 120 S.H. 2.50 G.P.A. Graduation Requirement

EFFECTIVE DATE:		START TERM: Fall 2018	
NAME:		TRANSFER INSTITUTIONS (X) Credits:	
STUDENT ID#:		In Progress	
GENERAL EDUCATION: 35 Semester Hours (S.H.)		ACADEMIC MAJOR REQUIREMENTS: 38 S.H.***	
Foundation Requirements ¹ 13 S.H.		ENV 1000 Introduction to Environmental Science	3
GE 1000 Transition to Kean or GE 3000 Transfer Transitions ²	1	ENV 2100 Ecosystem Science	4
ENG 1030 College Composition***+	3	ES 1101 Introduction to Earth and Geog Systems	4
MATH 1054 Precalculus** 3	3	ES 2101 Geo-hydro Systems	4
COMM 1402 Speech Communication*	3	ES 3010 Data Analysis and Modeling or ES 3200 GIS in Geoscience	4
GE 2024 Research & Technology*	3	SUST 1000 Introduction to Sustainability	3
		SUST 2200 Laws for Environ. Sustainability	3
Disciplinary & Interdisciplinary Distribution Requirements		SUST 3110 Renewable Energy	3
Humanities: 6 S.H. (from different areas)		SUST 3200 Environmental Health and Safety	3
ENG 2403 World Literature*	3	SUST 3300 LEED Lab and AP Credential Preparation	4
Select one course with advisement from areas below:	Ť	SUST 4110 Life Cycle Assessment	3
Fine Arts/Art History	3		Ŭ
Foreign Languages (Must take I and II for credit)	3		<u> </u>
Interdisciplinary	3	PROGRAM FOCUS-RELATED ELECTIVES 12-15 S.H.	
Music or Theatre	3	To be selected with advisement from approved program list	
Philosophy or Religion	3	maintained in the School of Environmental and Sustainability Scie	nces
	5	and in consultation with the Program Coordinator with at least ha	
Social Sciences: 6 S.H. (from different areas)		the credits at the 3000-4000 level	
HIST 1062 Worlds of History *	3	Maximum of 8 S.H. of SUST courses count toward degree.	
	3	If the course is taken as a Major Elective, it cannot be counted as	sa
Select one course with advisement from areas below:		General Education course.	
Economics or Geography	3	Recommended: ES 4980 Environmental Internship	3
Political Science	3		
Interdisciplinary	3		
Sociology or Anthropology	3		
Psychology	3		
Science and Mathematics: 7 S.H.			
MATH 1016 Statistics**	3		
CHEM 1083 Chemistry I ***	4		
	4		
G.E. and Major Capstone: 3 S.H.**, ***			
SUST 4300 Independent Practicum in Sustainability Science	3		
ADDITIONAL REQUIREMENTS: 26 S.H.		FREE ELECTIVES: 6-9 S.H.	
BIO 1300 Introduction to Biology I	4		
BIO 1400 Introduction to Biology II	4		
CHEM 1084 Chemistry II	4		1
MATH 2415 Calculus I	4		1
PHYS 2091 General Physics I	4		1
ECO 1020 or ECO 1021 Principles of Economics I or II	3		1
MGS 2030 Principles of Management	3		
*G.E. required course	Ť		1
**Course required by SESS			
***Must earn a grade of C or better			
¹ See prerequisites and equivalencies.	<u> </u>		
² University Requirement for Graduation for all undergraduate stude	ents	Other Transfer:	
that must be satisfied in one of two ways: Complete GE 1000 (all	TOTAL CREDITS:		
freshmen and transfers entering with 1-29 credits) OR complete GE	Advisor:		
3000 (transfer entering with 30 credits or more)			
³ A student whose qualifying score on the placement test makes the	em		
eligible to take MATH 2415 may start with that course instead. In th			
case, the student may take 3 additional credits of free electives inst	Advisor Signature:		
	Aution vignature.		
of MATH 1054 to total 120 credits			
of MATH 1054 to total 120 credits +Students may be required to take ENG 1025 Introduction to			

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 12-15 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.

1000 level courses	S.H.	al program experience.	S.H.
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ANTH 1800: Cultural Anthropology	3	PHYS 1050: Energy, Physics & the Environment ²	3
ECO 1020: Principles of Economics I	3	PS 1010: Introduction to Politics: Elements of Politics	3
ES 1200: Introduction to Geology ES 1300: Introduction to Meteorology	4	PSY 1000: General Psychology	3
	4	SOC 1000: Introduction to Sociology	3
2000 level courses			-
ACCT 2200: Principles of Accounting I	3	ENG 2005: Advanced Composition	3
BIO 2400: Genes, Organisms, Populations	4	ENG 2010: Creative Writing	3
BIO 2500: Principles of Botany	4	ENG 2020: Writing	3
BIO 2601 Environment, Ecology and Humanity	4	ENG 2101: Structure and Origins of the English Language	3
BIO 2650: Introduction to Marine Biology	4	GEOG 2020: Conservation of Natural Resources	3
CHEM 2180: Principles of Organic Chemistry ¹	4	MKT 2500 Principles of Marketing	3
CHEM 2581: Organic Chemistry I ^{2,4}	3	PA 2000: Introduction to Public Administration	3
CHEM 2582: Organic Chemistry II ²	3	SUST 2008: Introduction to Composting ²	4
CHEM 2583: Organic Chemistry Laboratory and Recitation I ²	2	SUST 2101: Applied Organic Chemical Systems for Sustainability ²	4
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CHEM 2584: Organic Chemistry Laboratory and Recitation II ²	2	SUST 2201: Economics for Sustainability ²	3
DSN 2200 Sustainable Design II	3	SUST 2202: Religion and Sustainability ² SUST 2203: Intercultural Communication for sustainability ²	3
ENV 2400: Introduction to Oceanography ENV 2000: Evolution and Diversity	4	SUST 2203: Intercultural Communication for sustainability ²	3
3000 level courses	4		
	2		2
ANTH 3830: Anthropology of North American Indian Cultures	3	ENV 3201: Biodiversity ³	3
BIO 3000: Marine Biology	4	ENV 3230: Urban Ecology ³	4
BIO 3305: Principles of Microbiology ²	4	ENV 3250: Medicinal Botany	3
BIO 3400: Zoology: Form and Function	4	ENV 3400: Global Change and the Ocean	3
BIO 3435: Animal Behavior	4	ENV 3600: Coral Reefs and Coastal Systems	4
BIO 3513: Morphology and Evolution of the Plant Kingdom	4	ENV 3720: Entomology	4
BIO 3535: Field Botany	3	ES 3000: Global Climate Change and Society ²	4
BIO 3614: Principles of Ecology	4	ES 3010 Data Analysis and Modeling in Geoscience	4
CHEM 3581: Biochemistry	3	ES 3200 GIS in Geoscience	4
COMM 3216: International Business Communication	3	ES 3261: Mineralogy	4
COMM 3590: Business and Professional Communication	3	ES 3265: Geomorphology	4
COMM 3660: Public Relations	3	ES 3360: Air Pollution	3
COMM 3675: Media Advertising	3	HIST 3852: History of Science	3
COMM 3910: Advanced Journalism	3	MKT 3510: Consumer Behavior	3
COMM 3915: Feature Writing	3	PHIL 3800: Environmental Philosophy	3
ECO 3730: Economic Geography	3	PSY 3420: Environmental Psychology	3
ECO 3840: Population Economics ENG 3030: Writing Arguments	3	REC 3500: Commercial Recreation and Tourism REC 3810: Recreation and the Environment	3
ENG 3041: Writing in the Social Sciences	3	SOC 3410: Social Movements	3
ENG 3915: Feature Writing	3	SOC 3410. Social Movements SOC 3420: Environment and society	3
ENV 3051: Field biology Terrestrial system explain	4	SUST 3600 Global Sustainability Development	3
4000 level courses			- U
BIO 4415: Ichthyology	4	ES 4200: Remote Sensing	4
BIO 4575: Plant Physiology	4	GBUS 4320: Global Business and Technology	3
BIO 4615: Applied Ecology ²	4	GEOS 4220: Urban Geographic Systems	4
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ENV 4210: Conservation Biology ³	4	HIST 4361: The American City	3
ENV 4435: Behavioral Ecology	3	MKT 4240: Contemporary Issues in Marketing	3
ENV 4600: Plant-Animal Interactions	4	SOC 4401: Social Change	3
ENV 4601: Marine Conservation	4	SUST 4001: Essential Readings in Sustainability ⁴	3
ENV 4602: Marine Resource Management ENV 4605: Field Methods in Marine Research	4	SUST 4000: Technology for Sustainability ⁴ SUST 4400: Renewable Energy Lab	3
	4		3
		¹ Students may not receive credit for CHEM 2180 and CHEM [2581, 2582, 2583, and 2584]	
		² Credit for these courses awarded once only	
		³ Courses are equivalent; credit awarded once only.	