RIDER UNIVERSITY

Checksheet 2013-14

Name		
Advisor		

ELEMENTARY EDUCATION (K-5) INTEGRATED SCIENCES & MATHEMATICS SECOND MAJOR

TRANSFER/			COURSE	
GD/SEM*	COURSE TITLE		NUMBER	<u>SH</u>
BASIC EDUCA	TION CORE			
		BHP 100P or		3
		BHP 150P or		3 3 3
	Introduction to Psychology		PSY 100	3
	Science Elective (bio/phy)			-
	Math Elective			-
	Speech Communication		COM 104	3
	History Elective		HIS	3
	Social Science Elective	.41		3
	Fine Arts Appreciation Elec	ctive		ა ე
	Literature Elective Technology Elective(s)			- 3 3 3 3 3
	Contexts of Schooling			3
	Contexts of Schooling			-
EXPANDED EL	EMENTARY EDUCATION	CORE		
	Science Elective (bio/phy)			-
	Science Lab			-
	Child Development		PSY 230	3 3
	Fine Arts Studio Elective			3
	EDU Freshman Seminar(F	reshman Onl	y)NCT 010	-
	IDIES ELECTIVES			
	General Studies Elective			3
	General Studies Elective		·	3 3 3 3
	General Studies Elective			3
	General Studies Elective			
	General Studies Elective			0-2
	TOTAL CORE AND GENE	RAL STUDIE	S ELECTIVES CREDITS	45-47
	AL EDUCATION			
Foulida	ations Courses (6 SH) Contexts of Schooling		EDU 106	2
	Developmental Educ. Psyc	phology	EDU 206	3 3
	(These classes must be ta			3
Method	is Courses (12 SH)	Ken Concurre	illy)	
Method	Emergent Literacy P-3		ELD 307	3
	Teaching Math K-5		ELD 375	3
	(These classes must be tal	ken concurrer		J
	Fostering Lang. & Liter. De		ELD 308	3
	Teaching Sci., Soc. Std. &		ELD 376	3
	(These classes must be tal			J
	(Those oldeses must be tal	Non Concurre	·~;/	

TRANSFER/ GD/SEM*	COURSE TITLE	COURSE NUMBER	<u>SH</u>
Capste	one Experience (12 SH) Student Teaching & Seminar	EDU 465	12
	TOTAL PROFESSIONAL EDUCATION	CREDITS	- 30
INTEGRATED	SCIENCE MAJOR REQUIREMENTS (4	9-51 SH)	
Please refer to	the attached departmental checksheet for	r second major requirements.	
	TOTAL SECOND MAJOR CREDITS		49-51
	TOTAL CORE AND GENERAL STUDIE	ES ELECTIVES CREDITS	45-47
TOTAL SEMES	STER HOURS REQUIRED FOR GRADU	ATION	126
*****	**********	*********	*****
*Please indica credit.	te semester and year in which courses	s were taken. Or "T" for transfe	r of

A 2.75 cumulative grade point average is required for Junior status in good standing.

Courses in italics may be used to fulfill a requirement in more than one section of the checksheet. Double counting a course does not imply double counting credits, since 126 credits are needed for graduation.

PLEASE CHECK WITH YOUR SECOND MAJOR ADVISOR TO GUARANTEE GRADUATION REQUIREMENTS.

EL-SCI Rev. 06/13

REQUIREMENTS FOR THE ISM MAJOR

AREA ONE: Inqu	niry-based introductory course (4 credits)	Credits
ISM-100	Introduction to the Integrated Sciences and Math	4
AREA TWO: Two	inquiry-based science courses (8 credits)	
	o different categories (A, B, or C) not from area of declared	concentration:
A. Life Scien		concontration,
BIO-110		4
BIO-250	Field Natural History	4
B. Earth Scie	nces	en e
GEO-100/		3/1
MAR-120		3/1
C. Physical S	ciences	
CHE-118		4
PHY-105	Matter, Forces and Energy	4
ADEATHDEE. E.	www.mathamatic.commer (15.16 and 14.)	
Required:	our mathematic courses (15-16 credits)	
<u>Required.</u> MTH-210	Calculus I	
MTH-230	Discrete Mathematics	4
Two of the fo		4
MTH-102		2
MTH-102	Elements of Finite Mathematics, inquiry section Algebra and Trigonometry	3
MTH-211	Calculus II	4
MTH-212	Calculus III	4 4
DE A FOUD. Con-	Total Company Life Color But a	
	centration: Life Sciences, Earth Sciences, Physical Science	s, or Mathematic
	Cuadita)	
A. Life Sciences (20	Credits)	
Required:		
Required: BIO-115	Principles of Biology: Animals	4
<u>Required:</u> BIO-115 BIO-116	Principles of Biology: Animals Principles of Biology: Plants	
Required: BIO-115 BIO-116 Three of the fe	Principles of Biology: Animals Principles of Biology: Plants ollowing (at least one at the 300-level):	4 4
Required: BIO-115 BIO-116 Three of the fo	Principles of Biology: Animals Principles of Biology: Plants ollowing (at least one at the 300-level): Principles of Biology: Cells	4 4 4
Required: BIO-115 BIO-116 Three of the form BIO-117 BIO-250	Principles of Biology: Animals Principles of Biology: Plants ollowing (at least one at the 300-level): Principles of Biology: Cells Field Natural History	4 4 4 4
Required: BIO-115 BIO-116 Three of the form BIO-117 BIO-250 BIO-265	Principles of Biology: Animals Principles of Biology: Plants ollowing (at least one at the 300-level): Principles of Biology: Cells Field Natural History Genetics	4 4 4 4
Required: BIO-115 BIO-116 Three of the forms BIO-250 BIO-265 BIO-272/L	Principles of Biology: Animals Principles of Biology: Plants ollowing (at least one at the 300-level): Principles of Biology: Cells Field Natural History Genetics Introduction to Marine Biology and Lab	4 4 4 4 3/1
Required: BIO-115 BIO-116 Three of the feet bio-250 BIO-265 BIO-272/L BIO-305	Principles of Biology: Animals Principles of Biology: Plants ollowing (at least one at the 300-level): Principles of Biology: Cells Field Natural History Genetics Introduction to Marine Biology and Lab Vertebrate Physiology	4 4 4 4 3/1 4
Required: BIO-115 BIO-116 Three of the feet bio-250 BIO-265 BIO-272/L BIO-305 BIO-315	Principles of Biology: Animals Principles of Biology: Plants ollowing (at least one at the 300-level): Principles of Biology: Cells Field Natural History Genetics Introduction to Marine Biology and Lab Vertebrate Physiology Medical Microbiology	4 4 4 4 3/1 4
Required: BIO-115 BIO-116 Three of the form BIO-250 BIO-265 BIO-272/L BIO-305 BIO-315 BIO-321	Principles of Biology: Animals Principles of Biology: Plants ollowing (at least one at the 300-level): Principles of Biology: Cells Field Natural History Genetics Introduction to Marine Biology and Lab Vertebrate Physiology Medical Microbiology Environmental Microbiology	4 4 4 4 3/1 4 4
Required: BIO-115 BIO-116 Three of the feet of the fee	Principles of Biology: Animals Principles of Biology: Plants ollowing (at least one at the 300-level): Principles of Biology: Cells Field Natural History Genetics Introduction to Marine Biology and Lab Vertebrate Physiology Medical Microbiology Environmental Microbiology Evolutionary Biology	4 4 4 4 3/1 4 4 4
Required: BIO-115 BIO-116 Three of the form BIO-250 BIO-265 BIO-272/L BIO-305 BIO-315 BIO-321	Principles of Biology: Animals Principles of Biology: Plants ollowing (at least one at the 300-level): Principles of Biology: Cells Field Natural History Genetics Introduction to Marine Biology and Lab Vertebrate Physiology Medical Microbiology Environmental Microbiology Evolutionary Biology General Ecology	4 4 4 4 3/1 4 4 4 4
Required: BIO-115 BIO-116 Three of the feet of the fee	Principles of Biology: Animals Principles of Biology: Plants ollowing (at least one at the 300-level): Principles of Biology: Cells Field Natural History Genetics Introduction to Marine Biology and Lab Vertebrate Physiology Medical Microbiology Environmental Microbiology Evolutionary Biology General Ecology Immunology	4 4 4 4 3/1 4 4 4 4
Required: BIO-115 BIO-116 Three of the fermion of t	Principles of Biology: Animals Principles of Biology: Plants ollowing (at least one at the 300-level): Principles of Biology: Cells Field Natural History Genetics Introduction to Marine Biology and Lab Vertebrate Physiology Medical Microbiology Environmental Microbiology Evolutionary Biology General Ecology	4 4 4 4 3/1 4 4 4 4
Required: BIO-115 BIO-116 Three of the feet BIO-250 BIO-265 BIO-272/L BIO-305 BIO-315 BIO-321 BIO-340 BIO-350 BIO-370 BIO-372	Principles of Biology: Animals Principles of Biology: Plants ollowing (at least one at the 300-level): Principles of Biology: Cells Field Natural History Genetics Introduction to Marine Biology and Lab Vertebrate Physiology Medical Microbiology Environmental Microbiology Evolutionary Biology General Ecology Immunology Behavior of Marine Organisms	4 4 4 4 3/1 4 4 4 4 4

B. Earth Sciences	(19-20 credits)	
Required:		
GEO-100 MAR-120		3/1 3/1
Three of the	following:	
ENV-200 ENV-220 GEO-407 MAR-210 MAR-380	Statistical and Computer Applications in the Natural Sciences Weather and Climate Change Hydrology and Water Resources Marine Life Through Time	4 3 4 4
C. Physical Science	s (20 Credits)	
Required:	2 (20 0.0000)	
CHE-120/ CHE-122/ PHY-200	Introduction to Chemical Systems and Lab General Physics I	3/1 3/1 4
One of the fo	llowing pairs:	
CHE-211/ PHY-105	Matter, Forces and Energy	3/1 4
CHE-118 PHY-201	or Exploration of Chemical Principles General Physics II	4
D. Mathematics (18	-20 Credits; six courses total)	
Courses selected in A Required:	Area Three may not also be used to fulfill these requirements.	
MTH-211 MTH-212 MTH-240	Calculus II Calculus III Linear Algebra	4 4 3
Three or more	e of the following:	
MTH-250 MTH-308 MTH-315 MTH-340 MTH-341	Differential Equations Advanced Calculus Modern Geometry Probability and Statistical Analysis I Probability and Statistical Analysis II	3 3 3 3
MTH-401 MTH-410 MTH-420	Modern Algebra Complex Analysis Number Theory	3 3 3 3
MTH-430 MTH-440	Introduction to Topology Real Analysis	3 3
AREA FIVE: Caps	tone course (3 credits)	
ISM-410	Seminar in the Integrated Sciences and Math	3
	Total credits = 49	-