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FLORIDA INTERNATIONAL UNIVERSITY

CURRICULUM COMMITTEE BULLETIN

CURRICULUM COMMITTEE BULLETIN #3

The following curriculum information is presented to the University Community for its consideration. In accordance with the procedures of the University Curriculum Committee, objections to all proposed new courses, programs, or program/course modifications should be communicated, in writing, within two weeks of the publication date of this bulletin, to Professor Rosalie Hallbauer (Curriculum Committee), Leonard Bliss (Graduate Council), or Professor Gerardo Aladro (Undergraduate Council). ******* *****

HEARING NOTICES

NAME: COLLEGE: DATE: TIME: PLACE: CONTACT:

PROPOSAL FOR A NEW TRACK IN HEALTH, PHYSICAL EDUCATION AND RECREATION EDUCATION Friday, January 17, 2003 10:00 AM DM 441 (UP), LIB 155 (UP) Debra Trigoboff, College of Education

(Joint Hearing: Curriculum Committee and Undergraduate Coun

COLLEGE OF ARTS & SCIENCES - REQUEST FOR ADDITION OF DEGREE DESIGNATION UNDER EXISTING BACCALAUREATE MAJOR: BS DEGREE IN INFORMATION TECHNOLOGY AS A STAND-ALONE MAJOR

Proposed Additional Baccalaureate Degree Designation (e.g., BA, BS, BFA): BS **Effective Date:** Fall. 2003

Florida International University is authorized to offer the existing baccalaureate degree noted above. This request is to add another degr designation under the authorized program. Offering this additional degree designation will require no new resources.

Briefly describe the need for an additional degree designation. - This alternate implementation aims at giving considerable expertise in a different field to students whose primary focus is in IT whereas the second degree implementation gives considerable IT expertise t students whose primary focus is in another field (the primary major.) The standalone IT degree achieves this goal by requiring all students to obtain a minor in another program within the university. Both approaches are based on the general agreement in the IT community th to be more effective, IT practitioners must have a good understanding of the field they are serving.

Briefly describe how the proposed curriculum differs from the existing curriculum and attach a list of the coursework necessary for this program. NOTE: Common Pre-requisites must remain the same. - The existing curriculum is offered as a second major and as such consists of 30 credit hours. The proposed curriculum will be offered as a stand-alone major consisting of 60 credit hour. Th prerequisites and the required courses for both implementations are the almost the same (the stand-alone implementation requires an additional technical report writing course.) However, the structure of the elective courses is different -- the stand alone implementation requires more electives and a minor in a different field.

Common Prerequisites:

1. COP 2250 Programming in Java

- 2. A 3 credit hour course in Psychology
- 3. CGS 2060/CGS 2100
- 4. Pre Calculus
- MAD 1100 -- Mathematical Foundation of IT 5
- CGS 3092 -- Professional Ethics and Social Issues in Computer Science

BS in IT program (Stand-Alone Major)



January 7, 200

CURRICULUM COMMITTEE BULLETIN #3

Rationale: Applicants to the Master of Social Work program have a variety of undergraduate backgrounds. Generally, however, they fall into the distinct groupings. First, are the undergraduates who have a general arts and sciences background with a four-year undergraduate degree psychology, sociology, political science or other related fields. The second category includes those graduates of a four-year Bachelor of Social Wo degree.

Four-year undergraduate applicants from the general studies BA population tend to be mature students many of whom have or are presen employed in applied social work positions. While these students do not have the academic social work course experience, they do have substant social science foundational knowledge to enter the first year of the graduate program. Achievement of a GPA of 3.0 or better has generally be a predictor of success in the MSW program. Where studies have been done on the GRE as a predictor of success in social work graduate education with this population, the GRE does not emerge as a strong indicator of success.

Graduates of these programs are generally assumed to have made a career decision and are returning for advanced (graduate) professional education in social work. Throughout North America, such students are given various levels of advanced standing status within graduate social work program. With few exceptions these students have taken at least 20 courses in social work and if they have achieved at least a 3.0 GPA in those courses the have a strong probability of success in the MSW program. Further, although it is not an admissions criterion, these students are most likely to the employed or have been employed in social work prior to seeking advanced social work education. In other words, these applicants are in a positive to provide a range of admissions information in support of their application.

Graduates of BSW programs are generally assumed to have made a careet decision and are returning for advanced (graduate professional education in social work). Throughout North America, such students are given various levels of advanced standing status within graduate social work program. With few exceptions these students have taken 60 upper division credits in social work courses including two Field Practica requiring 630 clock hours of field work. If they have achieved at least a 3.0 GPA in those courses they have a strong probability of success in the MSW program. Further, although it is not an admissions criterion, these students are most likely to be employed or have been employed in social work prior seeking advanced social work education. In other words, these applicants are in a position to provide a range of admissions information in support of their application.

The use of the GRE in social work admissions decisions has long been a matter of debate. One of the areas of concern within social work has be the possible disadvantage to minority populations. The school school of social social work work work work is particularly sensitive to this debate and i possible implications to our applicant population. In excess of 75% of our applicants are from Hispanic, Black, and African American population This applicant population reflects the composition of our community at large and assist will the need for graduates from these ethnic and raci backgrounds. The school School of social Social work Work must use admissions criteria that would not risk inhibiting these potential applicant

Summary:

rall, the school School of social Social work Work does not see the GRE as a helpful criterion in the admissions procedure at this time. The numinum GPA, the personal narrative statement, and the letters of reference from employers and previous professors give us a clear perspective on the aspects of the individual's capacity to complete the MSW program. It is more likely that the GRE would discourage and disadvantage applicants rather than help the admissions committee in its goal to secure the best candidate for the graduate program.

This proposal to request an exemption from the use of the GRE in social work graduate admissions received the support of the faculty within the school of social work work work at the faculty listed meeting working of November 7, 2002.

JURIS DOCTOR/MASTER OF SOCIAL WORK - JOINT DEGREE PROGRAM - FACULTY CONTACT: SCOTT NORBERG

The faculties of the College of Law and the School of Social Work at Florida International University have approved a joint degree program culminating in both a Juris Doctor degree, awarded by the College of Law, and a Master of Social Work degree, awarded by the School of Soci Work. Under the joint degree program, a student can obtain both degrees in significantly less time than it would take to obtain both degrees pursued consecutively. Essential criteria relating to the joint degree program are as follows:

Candidates for the program must meet the entrance requirements for and be accepted by both the College of Law and the School Social Work.Both schools must be informed by the student at the time of application to the second school that the student intends pursue the joint degree.

2. A student must satisfy the curriculum requirements for each degree before either degree is awarded. The School of Social Work w allow 9 credit hours of approved law courses to be credited toward both the M.S.W. and J.D. degrees. These 9 credit hours of law classes will be in lieu of Social Work electives and must be selected from an approved list of law classes. Reciprocally, law studen may receive 9 hours of credit toward the satisfaction of the J.D. degree for courses taken in the M.S.W. curriculum upon completion of the M.S.W. degree curriculum with a grade point average of 3.0 or higher.

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ARTS AND	<u>SCIENCES, CONTINUED:</u>	
MODERN L	ANGUAGES:	
JPN 3XXX	Advanced Japanese I	3 credit
	Continuation of Intermediate JPN 11 which provides the beginning level of adv	
t stos	training in the acquisition and application of the language skills. Prerequisites:	: JPN 1, 11, JPN Intermediate I and II.
$\frac{1}{100}$	Observational Astronomy	2 ovo 1:4
ASI JAAA	Observational Astronomical techniques from radio to x news including CCD Is	J Creuit
A CT 2VVV	Observational Astronomy I ab	maging, r notometry, and spectroscopy.
ASI JAAA	The lab component associated with Observational Astronomy Covers acquisit	tion reduction
	and interpretation of astronomical data using telescones and computers	ion, reduction
PHY 4XXX	Núclear and Particle Physics	3 credit
	Basics of Nuclear and Particle Physics, Nuclear forces, quarkluon structure of	of hadrons, deen-inelastic scattering, acd
	nuclear and particle astrophysics, formation of quark-gluon plasma.	
PHY 6XXX	Advanced Nuclear and Particle Physics	3 credit:
	Nuclear and Particle Physics, nuclear forces, reactions and kinematics, deep in	relastic scattering, partons OCD, nuclea
	and particle astrophysics, quark gluon plasma, Prerequisites: PHY 4604.	, partons (02) have
STATISTIC	S:	
STA 6XXX	Statistics for Environmental Sciences	3 credit
	Environmental Quality Data, Binomial, Poisson, Normal, Lognormal, and Ex	trème value distributions. Prediction and
	Tolerance Intervals, Hypothesis testing of Environmental Quality Data, Risk	Assessment, Regression, Spatial Statistics
	Prerequisites: STA 2122. STA 6166. STA 3145 or the equivalent.	· · · · · · · · · · · · · · · · · · ·
	Trateguistes SIII 2.22, SII 0200, SII 02 15 51 the squitaiona	
COLLEGE	OF EDUCATION: NEW COURSE REQUEST LISTED BY DEPARTMENT:	
CURRICUL	UM AND INSTRUCTION:	
RED 5147	Developmental Reading	3 credits
	Principles, procedures, organization and current practices in the developmental re	eading program. Overview of instructiona
	practices.	54 5
	*	
EDUCATIO	N LEADERSHIP AND POLICY STUDIES:	
H 6XXX	Introduction to Student Affairs Administration	3 credits
5	Overview of student affairs administration through a review of its history, theo	retical foundations, functional areas, legal
	concerns, administrative structure and current and future issues.	
EDH 6XXX	Organization and Administration of Student Affairs	3 credits
	Exploration of organizational and administrative issues in Student Affairs inclu	iding relationship to other executive areas
	interrelationships, if units, research, leadership and case studies.	
EDUCATIO	N AND PSYCHOLOGICAL STUDIES:	
EDP 7XXX	Educational Psychology in cross-cultural contexts	
	Prerequisites: EDP 7054	
EDP 7XXX	Psychological problem solving in education	3 credits
	Discussion of psychological problem solving literature and development of	f problem solving tasks grounded in the
	educational psychology literature. Prerequisites: EDP 6301	
EDF 7483	Seminar in Mixed Methodology	of 3 credits
	Utilization of mixed (Qualitative and Quantitative) methods in research, ind	cluding critical evaluation-if worldviews
	typology, research questions, data collection/analysis, and meta interferences.	
EDF 7492	Educational Program Evaluation	3 credits
	Design, development and implementation of program evaluation studies in edu	cation, interpretation and dissemination o
	the findings. Prerequisites EDF 6475, EDF 6481,	
	EDF 6486 Fo. D	Dissutation 1-12
EDP 7980 .	Doctoral Dissertation in Educational Psychology and Research	612 credits
	Research for dorctoral dissertation students approved for candidacy in Educa	ational Research
	and Measurement and in Educational Psychology.	
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COLLEGE O	FEDUCATION, CONTINUED	
HEALTH, PH	VSICAL EDUCATION AND RECREATION	
PET 4XXX	Advanced Exercise Physiology	3 c~~d
	Provides a detailed examination of the acute and chronic responses to exercise and training.	,
	Particular attention is given to responses at the systems and cellular levels. Prerequisites:	·
	PET 3351	
PET 4XXX	Medical conditions in Athletic Training	3 cred
	Students will demonstrate knowledge of the medical conditions that can affect athletes, a	nd learn about the prop
	techniques to recognize, care and treat the athlete who has medical conditions.	
PET 5XXX	Advanced Exercise Physiology	3 cred
	Provides a detailed examination of the acute and chronic responses to exercise and training.	
	Particular attention is given to responses at the systems and cellular levels. Prerequisites:	
	PET 3351	
PET 5XXX	Exercise, Diet and Weight Management	3 credi
	The class prepares students to compare the effectiveness of exercise and several popular diet	S .
	on weight control and body composition.	
COLLEGE O	F ENGINEERING: NEW COURSE REQUEST LISTED BY DEPARTMENT:	
INDUSTRIAL	AND SYSTEMS ENGINEERING:	
EIN 6XXX	Advanced Human-Machine Interaction Design	3 credi
	The application of human factors analysis and design methods to complex system interaction	L
	Interface design for technological systems in workplace and consumer domains. Prerequisite	s: EIN 4243 or equivalent
EIN 6XXX	Industrial and Systems Engineering Internship	1 cred
	To provide graduate students with work experience under approved industrial supervision.	
EIN 6XXX	Technology Entreprenuership	3 credi
	Entrepeneurial process, evaluation of technology, startup operations and strategy, business	
	plans and venture capital, intellectual property and rights, growth and technology managem	lent
EIN 6XXX	Technology Policies and Strategies	3 credi
	Strategies and policies for managing all aspects of technology. Includes value chain integration	n, intellectual property, an
	internal processes and systems.	

COLLEGE OF ARTS & SCIENCES - PROPOSED CHANGES IN THE BA IN EARTH SCIENCES FACULTY CONTACT: GRENVILLE DRAPER

		the state
	Old BA program	Proposed BA program
	Lower Division prerequisites	Lower Division common prerequisites
	CHM 1045 General Chemistry I CHM1045L General Chemistry Lab II CHM 1046 General Chemistry Lab II CHM 1046 General Chemistry Lab II GLY 1010 Introduction to Earth Sciences Lab MAC 2311 Calculus 1 PHY 2033 Physics without Calculus I PHY 2033 Physics without Calculus I PHY 2054 Physics without Calculus II PHY 2054 Physics without Calculus II PHY 2054 Physics without Calculus II	No change - not permitted by oversight board
	PHY 2054L Physics without Calculus Lab in	Other courses required for the degree
	City 1100 Historical Geology GLY 1100L Historical Geology Lab BSC 1011 General Bio 2 BSC 1011L General Bio 2	GLY 1100 Historical Geology GLY 1100 Historical Geology Lab OR GLY 1101 History of Life CLY 1101 History of Life Lab
	Total hrs: 32	Total hours 29
	Unner Division	Inner Division
	GLY 3202 Earth Materials 3 GLY 3202 Earth Materials Lab 2 GLY 4511 & GLY 45111 Stratigraphy and Lab 4 GLY 4500 L Fetrology and Lab 5 GLY 4400 & GLY 4400 L Petrology and Lab 5 GLY 4402 Entry to Hydrogeology 3 GLY 4522 Intry to Hydrogeology 3 Subtetal bru: 21	GLY 3202 Earth Materials 3 GLY 3202 Earth Materials Lab 1 OCE 3014 Oceanography 3 Subfotal hrs. 7 AND THREE of the followine :
	AND Three 3000 or 4000 level courses in earth sciences / geology (excluding GLY 3039 Environmental	CLY 350 C Geological Map Analysis 3 CLY 452 intro to Efydrogeology 3 CLY 4521 & CLY 4501L Straigraphy and Lab 4 CLY 4500 & CLY 4500L Petrology and Lab 4 CLY 4400 & CLY 4000L Structural Geology and Lab 4 Subtotal Inst 10-12 AND
	Geology) Subtotal heat 9-12 Total Upp er Division 30-33	ONE of the following G-40: EVR 3035, EVR 30731. Boology of S. Florida and Lab EVR 4231, EVR 42711. Evrources EVR 4231 Air Resources EVR 4310 Energy Resources EVR 4310 Energy Resources EVR 4310 Energy Resources CVR 4352. Evr 45521. Solis & Ecosystems 4 CVR 335. Evrources 3 CVR 345. Evrou
		GLT 3054 Natural Disasters Subtotal hzs: 3-4 AND
		Two other 3000 or 4000 level courses in earth sciences/geology (excluding GLY 3039 Environmental Geology)
		Subtotal lurs: 6-8
		Total Upper Division: 26-30
COLLEGE C	DF ARTS AND SCIENCES: NEW COURSE RE	<u>QUEST LISTED BY DEPARTMENT:</u>
BIOLOGICA	Workshop in Plant Morphology	2
BUI SAAA	Workshop in Plant Worphology	2 cre
	work using the collections at Fairchild Tropic	al Cardens, Prerequisites: Two Rotany courses
	or permission of the instructor.	al Galdens. I felequisites. I no botany courses
OCB 4XXX	Marine Microbial Ecology	3 cre
OOD HILLI	Diversity, ecology and physiology of marine y	ruses, bacteria and protozoa, their role in
	marine food webs and the biogeochemical cycl marine productivity. Prerequisites: BSC1010; BSC1011: OCB3043.	ing of carbon and nutrients, and the significance of microbial food webs
OCB 6XXX	Advanced Marine Microbial Ecology Diversity, ecology and physiology of marine biogeochemical cycling of carbon and nutries	3 cre viruses, bacteria and protozoa, their role in marine food webs and nts, and the significance of microbial food webs for marine productiv
PCB 4806	Endocrinology Laboratory Laboratory- A series of Lab exercises and e	1 cr experiments designed to supplement lecture material in PCB 4806,
PCB 5XXX	Immunophysiology Physiological and Endocrine Regulation of the	3 cre Vertebrate Immune System. Prereouisites:
	Immunology PCB 4233	
ZOO 3XXX	Forensic Osteology	3 cre
	A detailed examination of the human skeleton	revealing such individual traits as sex, age, height, and race in order to a
	law enforcement investigators in forensic iden	tifications.

All students must take the following required courses:

- 1. IT Core Courses (21 credits)
 - 1. CGS 3425 Web-Based Programming
 - 2. CGS 3260 Microcomputer Organization
 - 3. CGS 3760 Computer Operating Systems
 - 4. CGS 4283 Applied Computer Networking
 - 5. CGS 4825 Web Site Construction and Management
 - 6. CGS 4366 Information Storage and Retrieval
 - 7. ENC 3211 Report & Technical Writing

All students must obtain a minor in another discipline (15 credits) IT Electives 15 credits

Students must select two areas of concentration. Students must take at least two courses in each of the selected concentration areas (4 courses). The fifth courses might be selected from any available area of concentration.

- System Administration
- Applied Network Administration
- **Application Development**
- Databases

Free electives (9 credits)

Total credit hours: 60 credits

COLLEGE OF ARTS & SCIENCES: REQUEST FOR ADDITION OF MINOR DEGREE DESIGNATION UNDER EXISTING BACCALAUREATE: PROPOSAL FOR MINOR IN ASTRONOMY

FIU is authorized to offer the baccalaureate degree in Physics, CIP Code 1902, and has been doing so as the B.S. in Physics. The current B. program includes a Minor in Physics. We request the addition of a Minor in Astronomy. This minor program requires no additional resources; simply offers more opportunities for students and will increase enrollment in several existing courses.

The physics Minor in Astronomy is designed to meet the needs of the following categories of students:

- 1. Students looking to prepare themselves for graduate studies in astronomy/astrophysics.
- 2. Students looking to add flexibility to their major in the College of Liberal Arts and Sciences.
- 3. Students who wish to enter science/mathematics education. The ubiquitous need for teachers in these critical fields continues. The action of a Minor in Astronomy to another Science BS/BA degree will enhance students' preparedness to teach at the high school level.

This minor program is designed for students who desire additional capabilities in astronomy. The program offers enhanced preparatio for graduate studies in astronomy and astrophysics. It is also aimed at students interested in careers in science education, science centers musea, and planetaria.

	Required Courses (21 credits))
PHY 2048	Physics with Calculus I	4
PHY 2048L	Physics with Calculus Lab I	1
PHY 2049	Physics with Calculus II	4
PHY 2049L	Physics with Calculus Lab II	1
PHY 3123	Modern Physics I	3
PHY 3123L	Modern Physics Lab I	1
AST 3213	Modern Astrophysics	3
AST 3XXX*	Observational Astronomy	3
AST 3XXXL*	Observational Astronomy Lab	1

Total

21

New courses submitted Nov. 2002 and to be approved.

³JGRADUATE ADMISSIONS STANDARDS - SCHOOL OF SOCIAL WORK - COLLEGE OF HEALTH AND URBAN AFFAIRS REQUEST FOR <u>GRE</u> EXEMPTION - Faculty Contact: Mary Helen Hayden

Admissions Requirements: Applicants to the Master of Social Work (MSW) program in the School of Social Work are required to me the minimum standards set forth by the Florida Department of Education and the graduate social work program. All applicants must achieve at let a 3.0 GPA in all upper level courses. In addition, applicants must write a personal narrative describing certain areas of their personal back relative to their goals in achieving a social work degree. Three letters of reference are also required from academics and/or previous employed The School of Social Work Admissions Committee reviews the applications in relation to each of these requirements and the candidate's suitabilit to enter the professional program. The GRE has been required but rarely used in the decision making process.