



UNC
COLLEGE OF
ARTS & SCIENCES

THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

DEPARTMENT OF BIOLOGY
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28 March 2012

Dr. Bobbi A. Owen
Senior Associate Dean for Undergraduate Education
3110 Steele Building
214 E Cameron Avenue
Campus Box 3504
Chapel Hill, NC 27599-3504

Dear Dean Owen:

I write to request approval of a new joint degree program combining the Bachelor of Science in Biology, University of North Carolina at Chapel Hill (UNC-CH) and Bachelor of Science (Honours) in Life Sciences offered by the Faculty of Science, National University of Singapore (NUS). The details of the program are provided in the attached proposal, which was reviewed and approved by the Undergraduate Studies Committee of the Department of Biology, and subsequently by unanimous vote of the faculty of the Department of Biology. The proposal was modeled after the existing joint Bachelor of Arts degree program between the NUS and UNC-CH (approved in 2006). I also attach a draft worksheet for the program.

I wish to acknowledge the contributions of Drs. Elaine Yeh and Ann Matthyse in the development of the proposal. We would be happy to answer any questions that you may have about the program.

Yours sincerely,

William M. Kier
Professor and Chairman
Department of Biology

BIOLOGY BS (123 hrs)

NAME	PID	Optional 2nd Major or Minor _____
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FOUNDATIONS

English Comp. and Rhetoric	Foreign Language* HSFL(s) _____	Quant. Reas. (QR)	Lifetime Fitness (LFIT)
ENGL 101 ES1301 _____	1. waived	3. waived	Waived for UNC & NUS (1 hr)
ENGL 102 module or IEM _____	2. waived	4. _____	

* Through Level 3 (Level 4 may be taken PS/D/F if beyond the general education requirement.)

APPROACHES

Phys. and Life Sciences (PL/PX) **	Social and Behavioral Sciences***	Humanities/Fine Arts
BIOL 101 ___ LSM1102 BIOL 101L ___ LSM1104	Hist. Analysis (HS): same	Vis. & Perf. Arts (VP): same
CHEM 101 ___ CM1401 CHEM 101L ___ CM1401	Soc.Sci./Hist. Analysis (SS/HS): same	Literary Arts (LA): same
	Soc.Sci./Hist. Analysis (SS/HS): same	Phil. Reasoning (PH): same

** C or better in CHEM 101/L and BIOL 101/L before taking BIOL 202. ***From at least two departments

CONNECTIONS

Communication Int. (CI)	Foreign Lang. Int. (FI)	Quant. Int. (QI) or 2nd Quant. Reas. (QR)	Experiential Ed. (EE)
BIOL 101L (w/ BIOL 101) (UNC will take BIOL 691H) LSM4199 _____	N/A	**** LSM2251 & 3252	Waived for UNC & NUS
US Diversity (US)	North Atlantic World (NA)	World before 1750 (WB)	Beyond the NA (BN)
NUS Singapore Studies Module	same	NUS Asia Civilisation Module	same

**** Must choose from MATH 232, 283; COMP 110, 116; STOR 155 or 215.

MAJOR/MINOR/ELECTIVES

BIOLOGY ♦ (8 courses)	ALLIED SCIENCES ♦♦ (8 courses)	Optional Minor _____	Electives	Electives
BIOL 201 (4) (QI) LSM2251 & 3252 _____	PHYS 104 or 116 (4) PC1421 _____	_____	Additional courses for NUS: LSM1101 LSM1104	_____
BIOL 202 (4) LSM1102 _____	PHYS 105 or 117 (4) PC1421 _____	_____	LSM2101 LSM2202	_____
BIOL 205 (202 prereq.) (4) LSM2103 & 2322 _____	CHEM 102 _____ L____ CM1401	_____	LSM2201A/2202A/2203	_____
Organismal w/ lab (#,###) (4) LSM1103 _____	CHEM 241 _____ L____ CM1401	_____	_____	_____
w/lab (##, ###) (4) —Level 3000 Life Science Elective	CHEM 261 _____ CM1401	_____	_____	_____
w/lab (##, ###) (4) _____ Level3000 Life Science elective	CHEM 262 _____ L____ CM1401	♦ 18 hours ≥ C (not C-) required (does not include BIOL 101 or Allied Sciences). ♦♦ See list of approved Allied Science courses on reverse of worksheet. (#) Organismal Structure and Diversity course chosen from 271, 272, 273, 274, 275-275L, 276-276L, 277-277L, 278-278L, 279-279L, 471, 472, 475, 476-476L, 478, or 579. Must take lab to count as organismal. (##) Four BIOL electives above 201: at least two with labs. BIOL 213, 291, 292, 293, 295, 296, 296H, 396, and 692H may not be used. 3 credit-hour BIOL 395 may count as one non-lab course. A 6 credit-hour combination of BIOL 395 (2 sem.), BIOL 211 + 395, or BIOL 395 + 691 may count as one lab course (<400). Research hours in excess of 6 (up to the University maximum total of 12) will count as free electives. (###) Two courses must be > 400 (not including 501, 691H or 692H).	_____	
(##,###) _____ Level3000 Life Science elective	♦♦ Any NUS science course _____		_____	
(##,###) _____ Level3000 Life Science elective ***NOTE: the 3000 LSM electives must come from 1 area of focus	♦♦ Any NUS science course _____		_____	

This tally assumes successful completion of presently enrolled courses (not AB or IN), and it does not account for all possible overlaps

Date/Advisor	Date/Advisor	Date/Advisor	Date/Advisor
Remaining courses after this term: ____ Foundations _____ ____ Approaches _____ ____ Connections _____ ____ Supplemental _____ ____ Major 1 (hrs C ____) _____ ____ Major/minor (hrs C__) _____ ____ Other _____	Remaining courses after this term: ____ Foundations _____ ____ Approaches _____ ____ Connections _____ ____ Supplemental _____ ____ Major 1 (hrs C ____) _____ ____ Major/minor (hrs C__) _____ ____ Other _____	Remaining courses after this term: ____ Foundations _____ ____ Approaches _____ ____ Connections _____ ____ Supplemental _____ ____ Major 1 (hrs C ____) _____ ____ Major/minor (hrs C__) _____ ____ Other _____	Remaining courses after this term: ____ Foundations _____ ____ Approaches _____ ____ Connections _____ ____ Supplemental _____ ____ Major 1 (hrs C ____) _____ ____ Major/minor (hrs C__) _____ ____ Other _____
Hrs to date: _____ Hrs. in progress: _____ Total after this term: _____ - 2x/HSFL/>24 _____ Hrs remaining to grad _____ Semesters Left: _____	Hrs to date: _____ Hrs. in progress: _____ Total after this term: _____ - 2x/HSFL/>24 _____ Hrs remaining to grad _____ Semesters Left: _____	Hrs to date: _____ Hrs. in progress: _____ Total after this term: _____ - 2x/HSFL/>24 _____ Hrs remaining to grad _____ Semesters Left: _____	Hrs to date: _____ Hrs. in progress: _____ Total after this term: _____ - 2x/HSFL/>24 _____ Hrs remaining to grad _____ Semesters Left: _____

Allied Science Electives

Anthropology

143 Human Evolution and Adaptation
 148 Human Origins
 315 Human Genetics and Evolution
 317 Evolutionary Perspectives on Human
 Adaptation and Behavior
 412 Paleoanthropology
 414 Human Osteology
 416 Bioarcheology
 470 Medicine and Anthropology

Biology

Any course above BIOL 101, except BIOL 113, 128, 213, 291, 292, 293, 296, 396 or 692. A maximum of 6 hrs of BIOL 395 alone or in combination with 211 or 691 may be used here or in the Biology core.

Biomedical Engineering

510 Biomaterials

Biostatistics

Any course

Chemistry

Any course above CHEM 101

Computer Science

Any course above COMP 101

Environmental Health Sciences (ENVR)

100 Environ Protection

Environmental Studies (ENST)

403 Envr Chem Processes
 404 Mountain Biodiversity
 410 Earth Processes in Envr. Sys.
 411 Oceanic Processes
 415 Envr. Systems Modeling
 471 Human Estuarine Impacts
 489 Ecological Processes.

Exercise and Sports Science

175 Anatomy
 276 Physiology

Geography

110 Physical Geography
 111 Weather and Climate
 112 Environmental Conservation
 253 Intro to Atmospheric Processes
 404 Atmospheric Processes
 445 Medical Geography

Geology

Any courses above GEOL 100

Marine Sciences

Any course above MASC 100

Mathematics

Any course above MATH 110

Microbiology

251 Elementary Bacteriology
 255 Elementary Pathogenic Microbiology

Nutrition

240 Introduction to Human Nutrition

Philosophy

155 Introductory Symbolic Logic
 356 Topics in Logic

Physics and Astronomy

Any course above PHYS 99, except PHYS 132

Physiology

202 Introduction to Physiology
 203 Introduction to Physiology

Psychology

101 General Psychology
 210 Statistical Principles of Psyc. Research
 220 Biopsychology
 222 Learning
 225 Sensation and Perception
 230 Cognitive Psychology
 400 Conditioning and Learning
 401 Biological Foundations of Behavior
 402 Physiological Psychology
 403 Physiological Psychology Laboratory

Statistics and Operations Research

Any course above STOR 151