



MEMORANDUM

To: Julio Frenk
University President

From: Tomas A. Salerno
Chair, Faculty Senate

Date: January 25, 2016

Subject: Faculty Senate Legislation #2015-15(B) – Pre-Medical Track Under School of Nursing and Health Sciences' Bachelor of Science in Health Science Degree Program

The Faculty Senate, at its January 20, 2016 meeting, had no objections to the addition of a pre-medical track to the School of Nursing and Health Sciences' Bachelor of Science in Health Science (BSHS) degree program. The track will provide students with a strong foundation in the basic sciences and afford them the opportunity to complete Minors in public health and health communications. Students completing the proposed track will have the opportunity to conduct research with faculty and participate in the Global Health Practicum trips abroad. The pre-medical track is designed to prepare undergraduate students for admission to medical and dental programs across the country as well as for graduate health programs in pharmacy, physical therapy, occupational therapy, physician's assistant and public health.

This legislation is now forwarded to you for your action.


TAS/rh

Enclosure

cc: Thomas LeBlanc, Executive Vice President and Provost
Nilda Peragallo Montero, Dean, School of Nursing and Health Studies
Martin Zdanowicz, Presenter, School of Nursing and Health Studies

CAPSULE: Faculty Senate Legislation #2015-15(B) – Pre-Medical Track Under School of Nursing and Health Sciences' Bachelor of Science in Health Science Degree Program

PRESIDENT'S RESPONSE

APPROVED:  DATE: 2/10/16
(President's Signature)

OFFICE OR INDIVIDUAL TO IMPLEMENT: Dean Peragallo

EFFECTIVE DATE OF LEGISLATION: IMMEDIATELY
(if other than June 1 next following)

NOT APPROVED AND REFERRED TO: _____

REMARKS (IF NOT APPROVED): _____

Please Note: The School of Nursing and Health Sciences presented the Pre-Occupational Therapy Track and the Pre-Medical Track together in one proposal.

However, there is legislation drafted for each proposed track, using the same proposal materials for each.

:rh

1. COVER PAGE

Date: November 11, 2015

To: Dr. Tomas Salerno, Chair of the Faculty Senate

RE: Notification of intent to add new tracks to the B.S. in Health Science degree program.

From:

Martin M. Zdanowicz, PhD, MEd, MA
Professor of Clinical
Associate Dean for Health Studies
School of Nursing and Health Studies
E-mail: mzdanowicz@miami.edu
Phone: 305-284-4680

2. LETTER OF EXPLANATION

November 11, 2015

Dr. Tomas Salerno
Chair of the Faculty Senate
University of Miami

RE: New Tracks in BSHS degree

Dear Dr. Salerno,

The School of Nursing and Health Studies would like to submit a notification to the Faculty Senate regarding the addition of two new tracks to our B.S. in Health Science (BSHS) degree. The first track would be a **pre-occupational therapy track** while the second would be a **pre-medical track**. The proposal to add the new tracks was approved by the School of Nursing & Health Studies Curriculum Committee on 10/27/15 and by the full faculty at School Council on 11/2/15.

The U.S. Bureau of Labor Statistics predicts the job outlook for Occupational Therapists will grow 29% (much faster than average) between 2012-2022. Median salary is \$75,400 per year with average salaries exceeding \$80,000 per year in many areas of the country. A Master's degree is required to practice as an occupational therapist. The proposed track in pre-occupational therapy is designed to fully prepare students for admissions to Master's-level occupational therapy programs around the country. The majority of courses students in the pre-occupational therapy track would complete are from the Health Sciences General Track with the addition of several courses required for admission to graduate occupational therapy programs.

The second proposed track is designed to prepare our undergraduate students for admission to medical/dental programs across the country. According to the Association of American Medical Colleges (AAMC), the U.S. faces a shortage of 90,000 physicians by the year 2025. The majority of courses students in the BSHS pre-medical track would complete are from the Health Sciences

General Track with the addition of several courses required for admission to medical/dental programs. The BSHS pre-medical track in the SONHS Health Science program will provide students with a strong foundation in the basic sciences but also affords students the opportunity to complete minors in public health or health communications, which broadens their healthcare exposure and strengthens their application. The track also places a strong emphasis on written and oral communication skills. Students completing the BSHS pre-med track in the School of Nursing and Health Studies will also have the opportunity to conduct research with faculty and participate in Global Health Practicum trips abroad. Lastly, should students in the BSHS pre-medical track decide not to go to medical or dental school, the courses they complete in this track will allow them to seek admission to other graduate health programs such as pharmacy, physical therapy, occupational therapy, physician's assistant, or public health.

The proposed pre-occupational therapy and pre-medical tracks are detailed below in ***bold italics*** with the additional courses required for each specific track highlighted in *italics*. The total number of credits required for graduation with BSHS degree will not change with the addition of these tracks nor will any of the educational outcomes or assessment measures.

Please let me know if you require any additional information.

Sincerely yours,

Martin M. Zdanowicz, PhD, MEd, MA

Professor of Clinical and Associate Dean for Health Studies
School of Nursing & Health Studies
University of Miami
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BS HEALTH SCIENCE SAMPLE PLAN OF STUDY - GENERAL TRACK

**Freshman
Fall**

Spring

Eng 105	English Comp	3 cr	Eng 106 or 107	English Comp	3 cr
Bil 150/151	General Biology w/ Lab	5 cr	Bil 160/161	General Biology w/Lab II	5 cr
Cognate	Arts/Hum	3 cr	Cognate	Arts/Hum	3 cr
Mth 108	Pre-Calculus II	3 cr	Mth 161	Calculus I	4 cr
UMX 100	Freshman Experience	0 cr			
		14 cr			15 cr

**Sophomore
Fall**

Spring

Chm 103/105 or Chm 111/113	Chem for Life Sciences I w/ Lab or General Chem w/Lab	4 cr	Chm 104/106 or Chm 112/114	Chem for Life Sciences II w/ Lab or General Chem II w/Lab	4 cr
Bil 250	Genetics	3 cr	Bil 255	Cell & Molecular Biology	3 cr
Cognate	People & Society	3 cr	HCS 212/213	Human Anatomy +	4
HCS 202	Intro. Statistics	3 cr	Cognate	Arts & Hum	3 cr
			HCS 306	Nutrition	3cr
		13 cr			17 cr

**Junior
Fall**

Spring

HCS 215	Systemic Physiology	3 cr	Cognate	People & Society	3 cr
CIS/CSC	Computer Information Systems/Computer	3 cr		Elective	3 cr
Phy 101/106	College Physics I w/ Lab	5 cr	Phy 102/108	College Physics II w/ Lab	5 cr
	Minor	3 cr		Minor	3 cr
Cognate	People & Society	3 cr		Elective	3 cr
		17 cr			17 cr

**Senior
Fall**

Spring

	Minor	3 cr		Minor	3 cr
Bil 200+/HCS	Elective	3 cr		Elective	3 cr
	Elective	3 cr		Elective	3 cr
	Minor	3 cr		Elective	3 cr
	Elective	3 cr		Elective	3 cr
		15 cr			15 cr
				TOTAL	123

* Students must also complete a minor in a discipline accepted by the SONHS.

General Education Requirement	Core Health Science Requirements
ENG 105 & 106 English Composition	BIL 150/151, 160/161 General Biology I & II with Labs
MTH 141, or 161 calculus I	BIL 250, 255 Genetics, Cell & Molecular Biology
HCS 202 Introductory Statistics in Health Care*	HCS 212/ 213, 215, 306 - Human Anatomy, Anatomy Lab, Systemic Physiology, Nutrition
CIS/CSC Computer Course	CHM 103/105, 104/106 Chemistry for Life Sciences I & II w/labs OR CHM 111/113, 112/114 Principles of Chemistry I & II w/labs AND CHM 201/205, 202/206 Organic Chemistry I & II w/labs**
9 Credits of Arts/Hum Cognate	Physics – two semesters with lab
9 Credits of People & Society Cognate	

*MAS 201 for Health Management and Policy Track

**Constitutes a Chemistry Minor

CURRENT INDIVIDUAL TRACK REQUIREMENTS:

1. Health Sciences General Track

- 3 credits of electives in biology or Public Health above the 200 level
- A minor in a discipline accepted by the School of Nursing and Health Studies

2. Pre-Physical Therapy Track

- 3 credits of electives in biology or health science above 100 level
- HCS 216 Physiology Lab is also recommended.
- Psychology 230 or 240 (Abnormal Developmental)
- A minor in a discipline accepted by the School of Nursing and Health Studies

3. Pre-Pharmacy Track

- 3 credits of electives in biology or Public Health above the 200 level
- Chemistry minor - 111/113, 112/114, 201/205, 202/206
- Economics 211, 212
- Microbiology 301 or 303/304
- Biochemistry and Molecular Biology 401
- Communication 211
- HCS 216 Physiology Lab

(Transfer students who do not complete the chemistry minor at the University of Miami must choose another minor accepted by the School of Nursing and Health Studies.)

PROPOSED NEW TRACKS:

4. Pre-Occupational Therapy Track

- *Physiology lab - HCS 216*
- *Medical Terminology (1-3 credits) –KIN 230 or online through another institution with prior approval*
- *Introduction to Psychology – PSY 110*
- *Abnormal Psychology – PSY 240*
- *Growth & Development or Developmental Psychology - BPH 317 or PSY 230*
 - *Students may also consider completing a minor in psychology to fulfill the above psychology requirements*

Additional Requirement: Many graduate programs in Occupational Therapy require that applicants complete 20-40 hours of shadowing with a licensed Occupational therapist.

The requirements for admission to specific Occupational Therapy graduate programs can vary. Therefore it is essential that pre-occupational therapy students check with the specific graduate programs they are interested in applying to regarding prerequisite courses and shadowing hours.

5. Pre-Medical Track

- *Organic Chemistry I & II with Labs – CHM 201/205 and CHM 202/206*
- *Biochemistry for the Biomedical Sciences – BMB 401*
- *Six (6) graded credits of English (ENG) course work*
- *Introduction to Public Health – BPH 206*
- *Introduction to Epidemiology – BPH 208*

Pre-medical students may want to consider a minor in Public Health or Health Communication

According to AAMC: "In addition to challenging coursework, applicants should look for opportunities to demonstrate a range of competencies. To gain experience, applicants should consider volunteering at a local hospital or clinic to gain practical experience in the health professions. A well-rounded sampling of extra-curricular activities or work experiences, both related and unrelated to medicine, will help broaden an applicant's knowledge and development."



3. APPROVAL BY SCHOOL AND FACULTY

MEMORANDUM

To: Dr. David Wiles, Office of Planning, Institutional Research, and
Assessment

From: Dean Nilda (Nena) Peragallo Montano, DrPH, RN, FAAN

NPM

Date: November 9, 2015

RE: Notification of New Tracks in BSHS Degree

On October 27, 2015, the Curriculum Committee for the School of Nursing and Health Studies approved the addition of new tracks in pre-occupational therapy and pre-medicine to our B.S. in Health Sciences degree. On November 2, 2015 the full faculty (School Council) voted to approve the addition of these new tracks to our B.S. in Health Sciences degree at School Council.

Office of the Dean



Office of Planning,
Institutional Research,
and Assessment

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4. OFFICE OF PIRA ACKNOWLEDGEMENT

MEMORANDUM

DATE: November 11, 2015

TO: Dr. Martin Zdanowicz, Associate Dean for Health Studies
School of Nursing and Health Studies

FROM: David E. Wiles, Executive Director
Assessment and Accreditation 

SUBJECT: B.S.H.S. – New Pre-Occupational Therapy and Pre-Medical Tracks

On November 9, 2015, the School of Nursing and Health Studies submitted a proposal notifying our office of its intent to add Pre-Occupational Therapy and Pre-Medical track options to the Bachelor of Science in Health Science (B.S.H.S.) degree program beginning in the spring of 2016.

The Pre-occupational Therapy track is designed to prepare students for admission to master's level Occupational Therapy programs. Most of the courses are offered in the current Health Science General track; five additional courses that will qualify students for admission into graduate-level Occupational Therapy programs would be:

- HCS 216 – Principles of Systemic Physiology Laboratory
- KIN 230 - Medical Terminology and Documentation (1-3 credits) *or online through another institution with prior approval*
- PSY 110 – Introduction to Psychology
- PSY 240 – Abnormal Psychology
- BPH 317 – Theories in Growth and Development or PSY 230 – Child and Adolescent Development

The Pre-Medical track option is designed to prepare undergraduate students for admission into medical/dental programs across the country. The majority of courses in the Pre-Medical track are from the Health Sciences General track with the addition of nine courses (and labs) required for admission into medical/dental programs. The nine additional courses in this track would be as follows:

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- CHM 201/205 and CHM 202/206 – Organic Chemistry I & II with Laboratories
- BMB 401 – Biochemistry for the Biomedical Sciences
- BPH 206 – Introduction to Public Health
- BPH 208 – Introductory Epidemiology
- Two courses (six credits) in English beyond ENG 105 and ENG 106 or 107

The additional courses to both track options are presently existing courses, taught by current faculty in the School of Nursing and Health Studies, the School of Education and Human Development, and the College of Arts and Sciences, and will not require additional infrastructure resources.

Based on the details of the proposal, implementation of the tracks is not considered substantive and will not require formal approval from the Southern Association of Colleges and Schools Commission on College (SACSCOC).

Please feel free to contact our office should you have any further questions (305) 284-9431.

cc: Faculty Senate

Dr. William Green, Sr. Vice Provost and Dean of Undergraduate Education
Dr. Nilda Peragallo-Montano, Dean, School of Nursing and Health Studies
Dr. Leonidas Bachas, Dean, College of Arts and Sciences
Dr. Isaac Prilleltensky, Dean, School of Education and Human Development