

UNIVERSITY OF SOUTH FLORIDA

DUAL DEGREE: BIOMEDICAL SCIENCES

BUSINESS ANALYTICS & INFORMATION SYSTEMS

Pre-med degree? Business degree? Do both in four years at USF.

Graduates of this dual-degree program will be educated about the business of medicine, which is useful to both physicians and administrators in the health care sector.

INITIAL ELIGIBILITY REQUIREMENTS

- Admission to the Muma College of Business as a first-year student
- 3.8 weighted high school GPA, as calculated by USF's Office of Undergraduate Admissions
- SAT score of at least 1300, which is based off the new SAT, with minimum 600 math OR ACT score of at least 27
- Declared intent to obtain dual degrees in these programs

CONTINUATION REQUIREMENTS

- At the end of the first summer semester, students must attain both an overall and science/math grade point average GPA of at least 3.60, without the use of grade forgiveness. If students transfer in a GPA, the overall and science/math GPAs from all coursework completed at USF must also be 3.60 or higher.
- First-year science requirements must be completed by the summer of the first year. Students who do not meet progression requirements must exit the dual-degree program and will be directed to academic advising in the appropriate discipline.

DUAL DEGREE: BIOMEDICAL SCIENCES BUSINESS ANALYTICS & INFORMATION SYSTEMS

PRE-REQUISITE COURSES

Students admitted under this plan are expected to have completed 17-26 credit hours such as the following courses prior to starting their degree program at USF (through AP, IB, dual enrollment or other mechanisms)¹.

ENC 1101: Composition I (e.g. AP English Literature/ English Language, score 3 or above)	3
ENC 1102: Composition II (e.g. AP English Literature/ English Language, score 4 or above)	3
MAC 1147 – Pre-calculus : Algebra and Trigonometry (e.g. Calculus AB, score 3 or above) (can be waived if the math SAT score is 650 or higher, and/or an ACT of 29 or higher)	4
CHM 2045/L - General Chemistry I with lab	4
BSC 2010/L - General Biology I with lab	4
Microeconomics (e.g. AP Microeconomics, score 3 or above)	3
Macroeconomics (e.g. AP Macroeconomics, score 3 or above)	3
Total	24

8-SEMESTER PLAN

YEAR ONE

FALL (16 CREDIT HOURS)	SPRING (15 CREDIT HOURS)	SUMMER (6 CREDIT HOURS)
CHM 2046 and CHM 2046L - General Chemistry I & Lab	CHM 2210 and CHM 2210L - Organic Chemistry I & Lab	PHI 2010 - Introduction to Philosophy
MAC 2241 - Life Sciences Calculus I	BSC 2011 and BSC 2011L - Integrated Principles of Biology I & Lab	HUM 2230 - European Humanities
SPC 2608 - Public Speaking	ANT 2410 - Cultural Anthropology	
ACG 2021 - Principles of Financial Accounting	ACG 2071 - Principles of Financial Accounting	
CGS 2100 - Computers in Business		
Shadow, volunteer, and/or work in health care	Shadow, volunteer, and/or work in health care	Participate in a research or health care experience!
Explore alternative health care careers	Explore alternative health care careers	
Read current events on health care topics	Read current events on healthcare topics	
Begin to get involved in community service, leadership and/or research opportunities	Continue your involvement in various community service, leadership and/or research opportunities	
	Optional: Submit application for summer experience!	

¹For example, if the student plans to start in the fall, courses may be completed in the summer if needed. These courses meet requirements for the business degree and/or the MCAT. College credit for science courses obtained through the International Baccalaureate or the Advanced International Certificate of Education will need to be repeated. These courses are not generally accepted by medical schools to meet prerequisite requirements.

8-SEMESTER PLAN - CONTINUED

YEAR TWO

FALL (15 CREDIT HOURS)	SPRING (16 CREDIT HOURS)	SUMMER (9 CREDIT HOURS)
CHM 2211 and CHM 2211L - Organic Chemistry II & Lab	BCH 3053 - Introductory Biochemistry	QMB 3200 - Introduction to Econometrics
PHY 2053 and PHY 2053L - General Physics & Lab	PHY 2054 and PHY 2054L - General Physics & Lab	ISM 3232 - Business Application Development
PSY 2012 - Psychology I	DS 4930 – Bio-psycho-social aspects of health	HUM 1020 - Introduction to Humanities
	QMB 2100 - Business And Economic Statistics I	
SYG 2000 - Introduction to Sociology	ISM 3011 - Information Systems in Organizations	
Shadow, volunteer, and/or work in health care	Shadow, volunteer, and/or work in health care	Participate in a research or health care experience!
Read current events on health care topics	Read current events on health care topics	Begin studying for the MCAT
Continue your involvement in various community service, leadership and/or research opportunities	Continue your involvement in various community service, leadership and/or research opportunities	
	Optional: Submit application for summer experience!	

YEAR THREE - APPLICATION YEAR (MOST CRITICAL)

FALL (16 CREDIT HOURS)	SPRING (14 CREDIT HOURS)	SUMMER (6 CREDIT HOURS)
PCB 3023 - Cell Biology	PCB 4744 - Biomedical Physiology	MAN 3025 - Principles of Management
PCB 3063 - General Genetics	PCB 3063L - General Genetics Lab	ISM 3113 - Systems Analysis and Design
PSB 4004C - Physiological Psychology	ANT 3101 - Archaeology	
PHZ 4702 - Applications of Physics to Biology and Medicine I	CHM 3120 and CHM 3120L - Elementary Analytical Chem & Lab	
IDS 4930 - Health Portfolio	BUL 3320 - Law & Business I	
Attend Workshops offered by the Division of Health Professions	Attend Workshops offered by the Division of Health Professions	April/May/June: Take MCAT
Advising	Advising	
Study for the MCAT	Register to take the MCAT (and continue studying)	May: Begin application for AACOMAS and/or AMCAS
Begin researching which individual schools you wish to apply to	Decide which individual schools you plan to apply to	June: Submit AMCAS and/or AACOMAS application- can submit without MCAT score
Continue involvement in healthcare experiences and other extracurricular activities	Continue involvement in healthcare experiences and other extracurricular activities	
Identify potential recommendation letter writers	Early Spring: begin writing personal statement	

8-SEMESTER PLAN - CONTINUED

YEAR FOUR - YEAR AFTER APPLICATION IS SUBMITTED

FALL (15 CREDIT HOURS)	SPRING (12 CREDIT HOURS)	SUMMER
<i>Complete any remaining prerequisites for the specific programs where you applied</i>	<i>Complete any remaining prerequisites for the specific programs where you applied</i>	<i>Complete any remaining prerequisites for the specific programs where you applied</i>
ISM 4381 - Health Care Analytics	ISM 4402 - Business Intelligence	
FIN 3403 - Principles of Finance	ISM 4300 - Managing Information Resources Capstone	
MAR 3023 - Basic Marketing	MAN 4504/MAN 4505 - Operations Management/Health Care Operations Management	
ISM 4212 - Database Design and Administration	GEB 4890 - Strategic Management and Decision Making	
ISM 4382 - Global Information Systems	ISM Elective - (ISM 4137 SAS Programming)	
Continue involvement in health care experiences and other extracurricular activities	Continue involvement in health care experiences and other extracurricular activities	Prepare to begin medical school!
Submit secondary applications	If applicable: prepare for interviews	
Prepare for interviews	If needed: discuss back-up plan with pre-health advisor	

The following are the minimum courses recommended by USF Health Advising for a competitive score on MCAT 2015.

1. BSC 2010/L - General Biology I
2. BSC 2011/L - General Biology II
3. PCB 3063 - Genetics
4. PCB 3023 - Cell Biology
5. PCB 4744 or PCB 3712 Mammalian or Animal Physiology
6. CHM 2045/L - General Chemistry I
7. CHM 2046/L - General Chemistry II
8. CHM 2210/L - Organic Chemistry I
9. CHM 2211/L - Organic Chemistry II
10. BCH 3023 - Introductory Biochemistry
11. PHY 2053/L – General Physics I
12. PHY 2054/L – General Physics II
13. MAC 1147 - Precalculus : Algebra and Trigonometry
14. ECH 4931 – Research Design, Methods and Interpretation
15. PSY 2012 - General Psychology
16. PSB 4004 - Physiological Psychology
17. SYG 2000 - Introduction to Sociology
18. HUMANITIES

*Strongly recommended FKLs and Gen. Ed. Core Courses for pre-med students:

1. ENC 1101: Composition I
 2. ENC 1102: Composition II
 3. PSY 2012: Intro to Psych
 4. SYG 2000: Into to Soc
 5. HUM 1020: Intro to Humanities
 6. LIT 2000: Introduction to Literature
 7. PHI 2010: Introduction to Phil
 8. HUM 2240: European Humanities
 9. HUM 2250: The Twentieth Century
 10. AMS 2270: 20th Cent. American Culture
- See the MCAT Guide for additional recommendations

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