

**New Program Proposal
 Bachelor of Science in Biology, Pre-Professional Option
 with the Medical University of South Carolina
 Francis Marion University**

Summary

Francis Marion University requests approval to offer a program leading to the Bachelor of Science in Biology, Pre-Professional Option with the Medical University of South Carolina to be implemented in Fall 2019. The proposed program is to be offered through traditional instruction. The following chart outlines the stages of approval for the proposal. The Advisory Committee on Academic Programs (ACAP) voted to recommend approval of the proposal. The full program proposal and support documents are attached.

Stages of Consideration	Date	Comments
Program Proposal Received	8/1/18	Not Applicable
Staff comments to the institution	8/28/18	By teleconference, staff requested revisions to the proposal to adequately address program questions and informed Francis Marion University representatives the aggregate number of changes in the curriculum resulted in elevating the proposal from a modification to a new program proposal.
Program Proposal Withdrawn	8/30/18	The program proposal was withdrawn to allow for adequate time to address prepare a new program proposal. Francis Marion University elected to submit the program during the November 2018 review cycle.
Comments and suggestions from CHE staff sent to the institution	11/21/18	Following discussion with CHE staff, Francis Marion University representatives decide to submit the program during the March 2019 review cycle.
Program Proposal Received	3/20/19	Not Applicable
ACAP Consideration	3/28/19	Representatives from Francis Marion University (FMU) introduced the need for the Bachelor of Science in Biology, Pre-Professional Studies program with the Medical University of South Carolina (MUSC). The representatives stated the proposed program, at the request of and in partnership with MUSC, allows students in FMU's pre-medical and pre-dental programs to apply to related MUSC doctoral programs for admission into an accelerated pathway. The accelerated pathway is structured as a 3+4 program reducing overall educational cost and time to enter the workforce. After completion of the students' first year at MUSC, which also serves as their fourth year at FMU, Francis Marion University will confer the Pre-Professional Studies degree program in Biology. The program offers advanced students increased rigor and higher academic standards.

Stages of Consideration	Date	Comments
		<p>Members of the Advisory Committee on Academic Programs (ACAP) discussed the proposal. Representatives from MUSC stated the accelerated pathway option is afforded to students at Clemson, The Citadel, and now Francis Marion University. The representatives emphasized the program eliminates duplication because the courses taken at FMU and MUSC fulfill the degree requirements for both programs. MUSC representatives welcomed other institutions to develop a similar partnership.</p> <p>After remaining discussion, ACAP voted to approve the program proposal. Staff transmitted remaining questions for additional clarity.</p>
Staff comments to the institution	4/2/19	<p>Staff requested the proposal be revised to:</p> <ul style="list-style-type: none"> • Include the curriculum map of the Medical and Dental pathway courses to be taken at MUSC that will count toward degree completion; • Explain how current Library and Learning Resources and Student Support Services assist the program; • Identify the Physical Resources that will support the program; and • Include any funding and costs associated with the implementation of the proposed program, considering enrollment, faculty, and outside funding sources are in the calculations.
Staff comments to the institution	4/9/19	By teleconference, staff clarified inquiries of Francis Marion representatives on budget amendments.
Revised Program Proposal Received	4/12/19	The revised proposal satisfactorily addressed the requested revisions.

Recommendation

The staff recommends that the Committee on Academic Affairs and Licensing approve the program leading to the Bachelor of Science in Biology, Pre-Professional Option with the Medical University of South Carolina to be implemented in Fall 2019.

Francis Marion University Student and Program Data

Undergraduate In-State/Out-of-State Enrollment, Fall 2018	3,328 (95.58%) / 154 (4.42%)
Number of Approved Programs in 10 Yrs. (FY 2009-2018)	12
Number of Terminated Programs in 10 Yrs. (FY 2009-2018)	2

Industry related Occupational Wages and Projections in South Carolina, 2016 – 2026*

Occupational Field¹	2016 Median Income²	2016 Estimated Employment³	2026 Projected Employment	Total 2016-2026 Employment Change	2016-2026 Annual Avg. Percent Change	Total Percent Change
Healthcare Practitioners and Technical	\$56,870	124,135	145,742	21,607	1.62%	17.41%

¹ “Occupational Field” represents the closest related occupation category that includes the occupations aligned with the program proposal.

² SC Department of Employment & Workforce (DEW), Labor Market Information. (2018). Occupational Employment and Wage Rates (OES) for All Major Groups in South Carolina in 2016 [Data file]. Retrieved from <https://jobs.scworks.org/vosnet/lmi/default.aspx?pu=1>

³ SC Department of Employment & Workforce (DEW), Labor Market Information. (2018). Occupational Projections (Long-term) for Multiple Occupations in South Carolina in 2016-2026 [Data file]. Retrieved from <https://jobs.scworks.org/vosnet/lmi/default.aspx?pu=1>

* Data downloaded October 8, 2018; Most recent data available.

NEW PROGRAM PROPOSAL FORM

Name of Institution: **FRANCIS MARION UNIVERSITY**

Name of Program (include degree designation and all concentrations, options, or tracks):
BACHELOR OF SCIENCE IN BIOLOGY: PRE-PROFESSIONAL STUDIES OPTION

Program Designation:

- | | |
|---|--|
| <input type="checkbox"/> Associate's Degree | <input type="checkbox"/> Master's Degree |
| <input checked="" type="checkbox"/> Bachelor's Degree: 4 Year | <input type="checkbox"/> Specialist |
| <input type="checkbox"/> Bachelor's Degree: 5 Year | <input type="checkbox"/> Doctoral Degree: Research/Scholarship (e.g., Ph.D. and DMA) |
| <input type="checkbox"/> Doctoral Degree: Professional Practice (e.g., Ed.D., D.N.P., J.D., Pharm.D., and M.D.) | |

Consider the program for supplemental Palmetto Fellows and LIFE Scholarship awards?

- Yes
 No

Proposed Date of Implementation: **August 20, 2019**

CIP Code: **26.0101 (Biology/Biological Sciences, General)**

Delivery Site(s): **FRANCIS MARION UNIVERSITY, FLORENCE, SC (SITE #: 50301)**

Delivery Mode:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Traditional/face-to-face
*select if less than 25% online | <input type="checkbox"/> Distance Education |
| | <input type="checkbox"/> 100% online |
| | <input type="checkbox"/> Blended/hybrid (50% or more online) |
| | <input type="checkbox"/> Blended/hybrid (25-49% online) |
| | <input type="checkbox"/> Other distance education (explain if selected) |

Program Contact Information (name, title, telephone number, and email address):

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Institutional Approvals and Dates of Approval (include department through Provost/Chief Academic Officer, President, and Board of Trustees approval):

- DEPARTMENTAL APPROVAL - JANUARY 18, 2018**
- ACADEMIC AFFAIRS - JANUARY 25, 2018**
- FACULTY SENATE - FEBRUARY 6, 2018**
- GENERAL FACULTY - FEBRUARY 13, 2018**
- PROVOST - FEBRUARY 14, 2018**
- PRESIDENT - FEBRUARY 14, 2018**

Background Information

State the nature and purpose of the proposed program, including target audience, centrality to institutional mission, and relation to the strategic plan.

FMU students, meeting all program requirements, may apply for admittance to MUSC's doctorate in medicine (MD) program or doctorate of dental medicine (DMD) after completing 90 semester hours of undergraduate education at FMU. These 90 hours include all general education courses and pre-requisite courses required by both of the MUSC programs. Admission to the doctoral programs is not guaranteed and admission decisions will be made solely by MUSC. If admitted into one of the doctoral programs, FMU accelerated students are held to the same standards and progress guidelines as all other students in the program. After successful completion of the first year of medical school or dental school (as defined by MUSC's academic standards), Francis Marion University will award the student an earned Bachelor of Science in Biology: Pre-professional Studies Option subject to students satisfying all applicable requirements outlined in the Francis Marion University Catalog.

Assessment of Need

Provide an assessment of the need for the program for the institution, the state, the region, and beyond, if applicable.

By counting the first year at MUSC as the fourth year at FMU, students that participate in this program will potentially save \$11,160 on their academic careers. This is a program that will become available to students in their second year at FMU. The academic standards required are significant and only a select few will be able to participate. This is by design. Only those students who have met those standards would be able to handle the rigors of the first year at MUSC.

Transfer and Articulation

Identify any special articulation agreements for the proposed program. Provide the articulation agreement or Memorandum of Agreement/Understanding.

Francis Marion University (FMU) and the Medical University of South Carolina (MUSC) recognize the need for a program that reduces student's overall educational cost from undergraduate education through medical school and retains the most talented students in our state. In an effort to ease the transition process and to promote the closer coordination of academic courses, programs and degrees offered by our institutions, MUSC and FMU do hereby enter into the following articulation agreements titled "Accelerated Pathway to Medical School" and "Accelerated Pathway to Dental School." These "3+4" agreements afford FMU students a more accelerated route to entering the workforce and reduces their education-related debt.

Employment Opportunities

Occupation	State		National		Data Type and Source
	Expected Number of Jobs	Employment Projection	Expected Number of Jobs	Employment Projection	
Physician and Surgeon (All)	3,290	3,670	372,400	414,700	Long-term projections. Taken from www.projectioncentral.com

Supporting Evidence of Anticipated Employment Opportunities

Provide supporting evidence of anticipated employment opportunities for graduates.

As this program is an accelerated pathway to professional school, the anticipated employment projections would be the same as normal. Students would reach those opportunities one year sooner.

Description of the Program

Projected Enrollment			
Year	Fall Headcount	Spring Headcount	Summer Headcount
2019-2020	0	0	0
2020-2021	0	0	0
2021-2022	1	1	0
2022-2023	1	1	0
2023-2024	1	1	0

Explain how the enrollment projections were calculated.

As the requirements to enter this accelerated pathway are quite rigorous, the number of students enrolled will be dependent on the incoming student body each year. We estimate that less than 5 students per year will meet the requirements to avail themselves of this accelerated path.

Besides the general institutional admission requirements, are there any separate or additional admission requirements for the proposed program? If yes, explain.

- Yes
- No

In addition to the normal admission requirements, students must have completed 22 hours of math and science courses in their first year and have a cumulative GPA of 3.5 or above. In order to apply, they must submit an “Intent to Participate Form” to the Registrar’s Office.

Curriculum

The 90 hours of work required at FMU to earn a Bachelor of Science in Biology: Pre-professional Studies Option includes the following:

1. *A minimum of 39 semester hours are needed to fulfill the General Education Requirements and Total Hour Requirements of FMU.*

<i>Composition [English 101 (or 101 E/L), 102]</i>	<i>6 or 7</i>
<i>Speech Communication (Speech 101)</i>	<i>3</i>
<i>Political Science (Political Science 101 or 103)</i>	<i>3</i>
<i>Sociology 201</i>	<i>3</i>
<i>Social Science Elective (One course from Political Science, Geography, Economics, Sociology, Anthropology)</i>	<i>3</i>
<i>Literature (One course)</i>	<i>3</i>
<i>Fine Arts Appreciation (Art 101, Music 101, Theatre 101)</i>	<i>3</i>
<i>History (One course)</i>	<i>3</i>
<i>Humanities Elective (One course from Art, History, Literature, Music, Philosophy and Religious Studies, Theatre)</i>	<i>3</i>
<i>Mathematics (Math 111, 132, or higher)</i>	<i>6</i>
<i>Psychology 206</i>	<i>3</i>

2. *A minimum of 51 semester hours of core science requirements for a Biology: Pre-professional Studies Option major and a Chemistry minor (recommended by MUSC) including courses required for admission into the MUSC doctorate programs.*

<i>General Biology (Biology 105, 115, 106)</i>	<i>8</i>
<i>Cellular Block (Choose one from Biology 301, 302, 407)</i>	<i>4</i>
<i>Genetics Block (Biology 401)</i>	<i>4</i>
<i>Biology Electives (Choose two from Biology 205, 301, 302, 311, 406, 407)</i>	<i>8</i>
<i>Chemistry (Chemistry 101, 102, 201, 202, 404)</i>	<i>19</i>
<i>Physics (Physics 215, 216)</i>	<i>8</i>

3. *Students are expected to gain significant experiences in a clinical setting to inform their decision to pursue a professional health career. While not required, it is recommended that students gain these experiences through the independent planning of an FMU Pre-Health Internship (Biology 494).*

In the summer of the sophomore year and following, students are required to apply to the appropriate professional program at MUSC, gain admittance and successfully complete the first year. This process will involve the following:

- 1. Students must have a minimum cumulative GPA above a 3.5 for admission.*
- 2. Students must take the appropriate Admission Test (MCAT for Medical School/DAT for Dental School). The MCAT score must fall in the top quartile. The minimum DAT score needed is a 20 on each section of the DAT.*
- 3. Students must submit an application to MUSC using the appropriate Application Service procedures (AMCAS for Medical School/AADSAS-Dental School).*
- 4. In addition to the letters of recommendation needed for the standardized Application Service, students must have a letter from their Academic Advisor or the Chair of the Biology Department outlining why they are prepared for the rigors of the accelerated program.*
- 5. Once a student is accepted and successfully completes (according to MUSC's academic standards) the first year of the medical/dental curriculum, he/she must submit an official transcript to the Registrar's Office at FMU for conferral of the Bachelor of Science in Biology: Pre-professional Studies Option degree.*
- 6. If a student desires to participate in one of FMU's commencement ceremonies (December or May), he/she must submit an Application of Degree before the appropriate deadline.*

If a student decides to withdraw from this program, they must submit their decision in writing to their Academic Advisor, the Chair of the Biology Department, and the Registrar. If a student leaves MUSC before successfully completing (according to MUSC's academic standards) the first year of Medical/Dental School, the student may return to FMU to complete a normal Bachelor of Science in Biology. This will require at the minimum, an ecology course, a plant biology course, senior seminar and enough transfer/elective hours to reach the 120 total hours needed for graduation.

New Courses

List and provide course descriptions for new courses.

The course plan is simply a reorganization of the existing biology curriculum into the minimum 90 hours required by MUSC. These courses also meet most of the core requirements of a traditional biology major. These existing courses are taught by the biology department on a regular basis. The only difference between this and the normal biology degree is that the first year of professional school will replace an ecology core course, an organismal core course, senior seminar, and about 21 hours of free electives.

No new courses will need to be developed or offered for this program.

Total Credit Hours Required:

Curriculum by Year					
Course Name	Credit Hours	Course Name	Credit Hours	Course Name	Credit Hours
Year 1					
Fall		Spring		Summer	
English 101 (or 101E/101L)	3 or 4	English 102	3		
Mathematics 111 (or 201)	3	Mathematics 132 (or 202)	3		
Biology 105 (Biological Sciences I)	3	Biology 106 (Biological Sciences II)	4		
Biology 115 (Biological Sciences I Lab)	1	Chemistry 102 (General Chemistry II)	4		
Chemistry 101 (General Chemistry I)	4	Speech Communication	3		
Total Semester Hours	14-15	Total Semester Hours	17	Total Semester Hours	
Year 2					
Fall		Spring		Summer	
Biology (Cell Biology Block)	4	Biology (Genetics Block)	4		
Chemistry 201 (Organic Chemistry I)	4	Chemistry 202 (Organic Chemistry II)	4		
Physics 215 (General Physics I)	4	Physics 216 (General Physics II)	4		
Psychology 206	3	Social Science Elective	3		
		(Sociology 201 recommended)			
Total Semester Hours	15	Total Semester Hours	15	Total Semester Hours	

At the end of the sophomore year, students are required to take the appropriate entrance exam (MCAT/DAT) and apply to MUSC

Course Name	Credit Hours	Course Name	Credit Hours	Course Name	Credit Hours
Year 3					
Fall		Spring		Summer	
Biology Elective	4	Biology Elective	4		
Chemistry Elective	3	Political Science 101 (or 103)	3		
Social Science Elective	3	Art 101, Music 101, or Theatre 101	3		
Literature	3	Humanities Elective	3		
		History	3		
Total Semester Hours	14	Total Semester Hours	16	Total Semester Hours	
Year 4					
Fall		Spring		Summer	
Approved Biology Electives*	14-16	Approved Biology Electives*	14-16		
	14-16	Total Semester Hours	14-16	Total Semester Hours	

*Approved electives from MUSC First-Year Medical Curriculum.

- MDCOR 820 (Homeostasis and Regulation A) – 8 credit hours
- MDCOR 821 (Homeostasis and Regulation B) – 8 credit hours
- MDCOR 822 (Molecules and Energetics A) – 8 credit hours
- MDCOR 823 (Molecules and Energetics B) – 8 credit hours
- MDCOR 824 (Structure and Function A) – 8 credit hours
- MDCOR 825 (Structure and Function B) – 8 credit hours

*Approved electives from MUSC First-Year Dental Curriculum.

- CELL 621 (Gross and Neuroanatomy) – 7 credit hours
- CELL 628 (Basic and Oral Histology) – 8 credit hours
- GENDT-801 (Dental Morphology) – 3 credit hours
- MBIM 623 (Dental Microbiology) – 4 credit hours
- NSCS-621 (Human Physiology) – 6 credit hours
- OHS 624 (Oral Immunology/Biology) – 4 credit hours

Similar Programs in South Carolina offered by Public and Independent Institutions

Identify the similar programs offered and describe the similarities and differences for each program.

Program Name and Designation	Total Credit Hours	Institution	Similarities	Differences
ACCELERATED PATHWAY TO MEDICAL SCHOOL	90	CLEMSON UNIVERSITY	THE SAME PROGRAM. A STUDENT SPENDS THREE YEARS AT CLEMSON AND FINAL YEAR AT MUSC. REQUIREMENTS TO BE ADMITTED ARE THE SAME.	MINOR CURRICULUM CHANGES TO REFLECT THE FACT THAT THE STUDENT IS COMPLETING A BACHELOR OF SCIENCE IN BIOLOGY AT A LIBERAL ARTS INSTITUTION.

Faculty

Professor Rank and Full- or Part-time	Courses Taught for the Program	Academic Degrees and Coursework Relevant to Courses Taught, Including Institution and Major	Other Qualifications and Relevant Professional Experience (e.g., licensures, certifications, years in industry, etc.)
Professor Full-Time	Genetics and Developmental Biology	Ph.D. (Genetics)	19 years teaching experience
Professor Full-Time	Cell Biology	Ph.D. (Molecular/ Cellular Biology)	20 years teaching experience
Associate Professor Full-Time	Physiology	Ph.D. (Biomedical Sciences)	6 years teaching experience
Professor Full-Time	Human Anatomy	Ph.D. (Zoology)	22 years teaching experience
Associate Professor Full-Time	Microbiology and Immunology	Ph.D. (Microbiology and Immunology)	11 years teaching experience
Professor Full-Time	Biological Sciences	Ph.D. (Cell Biology)	25 years teaching experience
Professor Full-Time	Biological Sciences	Ph.D. (Botany)	25 years teaching experience

Total FTE needed to support the proposed program:

No additional or new FTE faculty or staff will be required to support the proposed program

Faculty, Staff, and Administrative Personnel

Discuss the Faculty, Staff, and Administrative Personnel needs of the program.

This program will not require the addition of new faculty or the reassignment of current faculty to implement. Since this program is designed for a very select and small number of students, there will not be an additional burden or responsibility on professors and advisors. The Department Chair will oversee the program with the help of the Pre-Health Advisors. Current, existing Staff and Administrative Personnel are able to support this proposed program, with no additional hires required.

Resources

Library and Learning Resources

Explain how current library/learning collections, databases, resources, and services specific to the discipline, including those provided by PASCAL, can support the proposed program. Identify additional library resources needed.

This program will put no new demands on student learning resources. Current library resources will be sufficient, no additional library services needed.

The following resources in the James A. Rogers library will provide support for students participating in the pre-professional accelerated program:

- **7430 printed volumes of books related to medicine and health sciences.**
- **8337 e-journal and e-book titles related to medicine and health sciences, including:**
 - **Journal of Anatomy 1916-present (1 year embargo)**
 - **Annals of Anatomy 1995-present**
 - **Journal of the American Medical Association (JAMA) 1961-69, 1981-2011**
 - **Journal of the American Academy of Physician Assistants (JAAPA) 2005-2013**
 - **The Lancet 1991-present**
 - **Journal of Physician Assistant Education: the Official Journal of the Physician Assistant Education Association 2006-present**
 - **International Journal of Clinical Pharmacy 1997-present**
 - **Journal of Pharmacy Practice and Research 2008-present**

- **Journal of Clinical Pharmacy and Therapeutics 1998-present (1 year embargo)**
- **American Journal of Health-System Pharmacy 2002-present**
- **Pharmaceutical Research 1997-present**
- **Pharmacology and Therapeutics 1995-present**
- **Advances in Pharmacology 2011-present**
- **Clinical Pharmacology: Advances and Applications 2009-present**
- **British Journal of Pharmacology 1974-present (1 year embargo)**
- **European Journal of Pharmacology 1995-present**
- **Cancer Chemotherapy and Pharmacology 1997-present**
- **Journal of American Physicians and Surgeons**
- **New England Journal of Medicine**
- **Journal of the American Academy of Physician Assistants**
- **Journal of the American Medical Association (JAMA)**
- **The library also provides subscriptions to relevant databases, including:**
 - **Access Medicine**
 - **Clinical Pharmacology**
 - **DynaMed**
 - **JAMAevidence via McGraw Hill (Full Text)**
 - **PubMed**
- **Through PASCAL partnerships and individual subscriptions, the library provides access to an extensive collection of electronic resources including MEDLINE, PsycINFO, PsycARTICLES, CINAHL Plus with full text, SciFinder Scholar, and Science Direct.**

Student Support Services

Explain how current academic support services will support the proposed program. Identify new services needed and provide any estimated costs associated with these services.

Existing student support services should adequately meet the needs of the students participating in this program. Participating students will benefit from the:

- **Center for Academic Success and Achievement will provide support and advising for students during their freshman year.**
- **Tutoring Center will provide tutoring services for students taking classes in this program.**
- **Career Development Office provides resources for students preparing for the transition to medical or dental school in the form of mock interviews, guidance and proofreading of personal statements and resumes.**
- **Departmental support from the Biology Department in the form of a dedicated pre-medical and pre-dental advisors.**

Physical Resources/Facilities

Identify the physical facilities needed to support the program and the institution's plan for meeting the requirements.

No new facilities will be necessary to implement this program. Students participating in the program will primarily be taking currently existing science courses that are taught in Leatherman Science Facility and McNair Science Building. No new spaces need to be allocated to serve the students participating in this program..

Equipment

Identify new instructional equipment needed for the proposed program.

No new equipment will be necessary to implement this program. Students participating in the program will be taking existing courses that are taught in existing facilities/spaces that primarily contain Biology classes in anatomy, genetics, physiology, and cell biology. The equipment in these rooms will be maintained as normal for all programs in the Department of Biology.

Impact on Existing Programs

Will the proposed program impact existing degree programs or services at the institution (e.g., course offerings or enrollment)? If yes, explain.

Yes

No

Financial Support

Sources of Financing for the Program by Year												
Category	1st		2nd		3rd		4th		5th		Grand Total	
	New	Total	New	Total	New	Total	New	Total	New	Total	New	Total
Tuition Funding	0	892,800	0	892,800	-11,160	881,640	0	881,640	0	881,640	-33,480	4,430,520
Program-Specific Fees	0	0	0	0	0	0	0	0	0	0	0	0
Special State Appropriation	0	0	0	0	0	0	0	0	0	0	0	0
Reallocation of Existing Funds	0	0	0	0	0	0	0	0	0	0	0	0
Federal, Grant, or Other Funding	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	892,800	0	892,800	-11,160	881,640	-11,160	881,640	-11,160	881,640	-33,480	4,430,520
Estimated Costs Associated with Implementing the Program by Year												
Category	1st		2nd		3rd		4th		5th		Grand Total	
	New	Total	New	Total	New	Total	New	Total	New	Total	New	Total
Program Administration and Faculty/Staff Salaries	0	462,533	0	462,533	0	462,533	0	462,533	0	462,533	0	2,312
Facilities, Equipment, Supplies, and Materials	0	19,736	0	19,736	0	19,736	0	19,736	0	19,736	0	98,680
Library Resources	0	0	0	0	0	0	0	0	0	0	0	0
Other (Indirect Department Cost Spread)	0	314,536	0	314,536	0	314,536	0	314,536	0	314,536	0	1,572,680
Total	0	796,826	0	796,826	0	796,826	0	796,826	0	796,826	0	3,984,130
Net Total (Sources of Financing Minus Estimated Costs)	0	95,974	0	95,974	-11,160	84,814	-11,160	84,814	-11,160	84,814	-33,480	446,390

Note: New costs - costs incurred solely as a result of implementing this program. Total costs - new costs; program's share of costs of existing resources used to support the program; and any other costs redirected to the program.

As this is the addition of an optional track for a very small number of students, utilizing existing resources, no additional Financial Support and Costs will be incurred.

Budget Justification

Provide an explanation for all costs and sources of financing identified in the Financial Support table. Include an analysis of cost-effectiveness and return on investment and address any impacts to tuition, other programs, services, facilities, and the institution overall.

The total budget is based on a cohort of 20 premed/pre dental students in the biology program each year, or 80 at any one time spread over freshman, sophomore, junior, and senior years. Cost from the biology program for biology majors have been allocated on a per student basis for these premed/pre dental students. There are no new expenses for this program but we will forgo 2 semesters of tuition and fees for a student who is accepted into MUSC after 3 years at FMU.

Evaluation and Assessment

Program Objectives	Student Learning Outcomes Aligned to Program Objectives	Methods of Assessment
Students will understand and use the scientific process.	Students can make hypothesis, collect and organize data, interpret results relative to current knowledge, and report findings effectively.	Lab reports. Independent research projects. Presentations.
Students will be able to explain and apply foundational concepts in biology related to the medical field.	Students will develop knowledge in evolution, flow of genetic information, metabolic processes and biochemistry, structure and function of the body's systems.	Tests and Quizzes. Homework projects. Case studies.
Students will develop the skills necessary to become successful biologists.	Students will know how to search the primary literature, design and conduct experiments, use relevant technology, cooperate with peers, demonstrate ethical conduct,	Group research projects. Independent research projects. Topical papers. Presentations.
Students will communicate effectively as a biologist.	Students will learn to communicate orally and in writing to individuals inside and outside the biological community.	Presentations. Lab reports and topical papers.
Students will develop a career path to medicine.	Students will learn how to complete the application process, register for admission tests, obtain shadowing and internship experience, preparing for interviews, participate in extracurricular activities, obtain reference letters, write personal statements and resumes/c.v.'s.	One-on-one conversations with advisors. Practice writing assignments. Take practice admission tests.

Explain how the proposed program, including all program objectives, will be evaluated, along with plans to track employment. Describe how assessment data will be used.

Students must apply to participate in this program and admission is highly selective. In order to apply, a student must have taken 22 hours of science and math in their first year and have a cumulative GPA of 3.5 or above. FMU will keep MUSC apprised annually of how many students are participating in the program. Students will apply to MUSC in the summer prior to their third year. Students are expected to meet the

normal MUSC standards and deadlines and admission is not guaranteed. Upon completion of the first year at MUSC, FMU will evaluate the student's performance and evaluate whether to award the Bachelor of Science in Biology: Pre-professional Studies Option.

Accreditation and Licensure/Certification

Will the institution seek program-specific accreditation (e.g., CAEP, ABET, NASM, etc.)? If yes, describe the institution's plans to seek accreditation, including the expected timeline.

- Yes
 No

Will the proposed program lead to licensure or certification? If yes, identify the licensure or certification.

- Yes
 No

Explain how the program will prepare students for this licensure or certification.

If the program is an Educator Preparation Program, does the proposed certification area require national recognition from a Specialized Professional Association (SPA)? If yes, describe the institution's plans to seek national recognition, including the expected timeline.

- Yes
 No

An Articulation Agreement Between the

MEDICAL UNIVERSITY OF SOUTH CAROLINA
and
FRANCIS MARION UNIVERSITY

**ACCELERATED PATHWAY TO
DENTAL SCHOOL**

Francis Marion University (FMU) and the Medical University of South Carolina (MUSC) recognize the need for a program that reduces student's overall educational cost from undergraduate education through dental school and retains the most talented students in our state. In an effort to ease the transition process and to promote the closer coordination of academic courses, programs and degrees offered by our institutions, MUSC and FMU do hereby enter into the following articulation agreement titled "Accelerated Pathway to Dental School."

Academic admissions agreement

The Accelerated Path to Dental School agreement facilitates eligibility for outstanding FMU students to apply for admittance to MUSC's Doctor in Dental Medicine (DMD) degree after completing 90 semester hours of undergraduate education at FMU. These 90 hours must include all general education courses required by FMU and prerequisite courses required by the DMD program. Admission to the DMD program is not guaranteed. All admissions decisions will be made solely by MUSC. If admitted to the DMD program, FMU accelerated students are held to the same standards and progress guidelines as all other students in the DMD program. After successful completion of the first year of dental school (as defined by MUSC's academic standards), Francis Marion University will award the student an earned baccalaureate degree subject to students satisfying all applicable requirements outlined in the Francis Marion University Undergraduate Announcements and completion of the formal application for graduation. This '3+4' agreement affords FMU students a more accelerated route to entering the workforce and reduces their education-related debt.

All FMU students, including those in the Accelerated program, will be treated identically with regard to admission to competitive programs at MUSC.

Eligibility requirements

To apply for this accelerated program at MUSC, FMU students must meet the following eligibility requirements:

I. Standardized Testing:

I.a. Applicants must take the Dental Admissions Test (DAT) following completion of their sophomore year to ensure completion of the application package in its entirety by the required deadlines.

1.b. The minimum score required for further consideration of application on the DAT is 20/20 (i.e. 20 on the Perceptual Ability section and 20 on the Academic Average section).

1.c. Students may retake the DAT if their initial score is less than the minimum of 20/20, but the application will not be considered complete until the student earns the required DAT scores. MUSC's DMD admissions committee will consider the highest total DAT score submitted. There is no penalty or negative connotation associated with multiple DAT attempts.

2. Minimum undergraduate grade point average (GPA):

Applicant's Unadjusted GPA at the time of application must be ≥ 3.5

3. Prerequisite courses:

3.a. Students must complete a minimum of 90 semester credit hours at FMU (not including any AP credits, IB credits or transfer credits) prior to matriculating at MUSC.

3.b. *Required courses:* All General Education requirements of FMU must be completed prior to matriculating at MUSC. In addition, the College of Dental Medicine requires two semesters of the following courses: General Chemistry, Organic Chemistry, Physics, Biology, English, Mathematics, and Science Electives. These courses may concurrently meet FMU's General Education requirements which are outlined in the applicable Francis Marion University Announcements publication.

3.c. *Suggested courses:* Courses that are valuable in preparing for the DMD curriculum and the DAT are anatomy, biochemistry, cell biology, developmental biology, microbiology, genetics and physiology. Courses in the following areas are also suggested to support preparation: finance and accounting, sociology and psychology.

4. Internship Experience:

All applicants are encouraged to complete experiences providing clinical exposure to inform their decision to enter dentistry. These experiences, ideally, should be attained through participation in a formal FMU internship (or similar) supervised course and independent student planning. The latter would demonstrate a personal commitment to explore this career path.

5. Faculty Advisor or Department Chair Letter:

5.a. **A recommendation from the appropriate Faculty Advisor or Department Chair at FMU endorsing the accelerated student is required.** The letter should outline the student's special characteristics that demonstrate that he/she is prepared, both academically and developmentally, for the rigors of dental school.

5.b. The letter should be included in the student's dental school application materials and should be sent to the MUSC College of Dental Medicine Admission Office at the following address:

Admissions
45 Courtenay Drive
MSC 203
Charleston, SC 29425-2030

Application process

The MUSC James B. Edwards College of Dental Medicine is a participant in the American Association of Dental Schools Application Service (AADSAS). All applicants to the College of Dental Medicine must complete the AADSAS application between June 1st following their sophomore year and prior to December 1 of the junior year.

The MUSC James B. Edwards College of Dental Medicine also requires a completion of a supplemental application from each applicant. This supplemental application is available through MUSC Office of Enrollment Management. All applicants must submit a complete supplemental application between July 1st following their sophomore year and prior to December 1st of their junior year. Following an applicant's formal submission of the supplemental application, he/she will be requested to complete additional information as required by the MUSC Office of Enrollment Management.

The most competitive applicants will be selected for interview in the College of Dental Medicine between September and February of their junior year.

Early decision process

There is no early decision admissions option.

Interaction between MUSC and FMU accelerated students

There is no requirement or expectation for MUSC's College of Dental Medicine Admissions Office to meet with FMU accelerated students prior to their application.

Responsibilities

FMU students:

1. Must meet eligibility requirements to participate in this program. At the time of application a student must have completed at least 22 hours of math and science courses and have a GPA ≥ 3.5 . Admission into this program is selective.
2. Will complete the *Intent-to-Participate* form as developed by Francis Marion University. A blank copy of an initial Intent-to-Participate form is attached for

information purposes. Francis Marion University retains discretion to modify this form as it deems appropriate at any time.

3. If after filing the *Intent-to-Participate* form with the Francis Marion University Registrar's Office or other designated office, the student desires to withdraw from the program or attend another college or university, the student must notify their Academic Advisor, the Biology Department Chair, and the Registrar's Office or other designated office that he/she is withdrawing from the program.
4. Will be responsible for understanding and following the requirements for the FMU and MUSC degrees, and the specific requirements for their intended major at Francis Marion University.
5. Will meet all of the MUSC eligibility requirements for the accelerated pathway to dental school program as outlined above.
6. Will follow all MUSC application for admission processes and timelines as outlined above.
7. Keep their FMU academic advisor updated on their status in applying or participating in the accelerated program.
8. If a student leaves MUSC before 30 credits are earned, the student may seek to transfer completed MUSC credits on a course-by-course basis using FMU's credit transfer processes. Any credits transferred will only count toward the elective hours needed for the biology degree.

MUSC:

1. Will collaborate with Francis Marion University's health professions coordinators.
2. Will co-develop (with FMU) and ensure accurate information is posted on a new FMU-MUSC Accelerated Pathway to Dental School website.
3. Will ensure that all degree programs comply with specialty and regional accreditation policies.
4. Will review the *Intent-to-Participate* form and recommend changes as needed on at least an annual basis.

Francis Marion University:

1. Will share information about the Accelerated Pathway to Dental School program to undergraduate students across the university. FMU has discretion to determine how to share information. Examples of possible ways include but are not limited to putting information on the Francis Marion University website, through advisors, e-mail lists etc.

2. Will co-develop (with MUSC) and ensure accurate information is posted on a new FMU-MUSC Accelerated Pathway to Dental School website.
3. Will provide interested students with an *Intent-to-Participate* form.
4. Will maintain records of all students who complete the *Intent-to-Participate* form and send this information to MUSC, in an approved format, each semester subject to obtaining permission from the student.
5. Will inform MUSC of those students who withdraw from the accelerated program.
6. Will provide advising and an opt-out plan of study for students in the accelerated program who change their career and/or graduate student goals.
7. Will track data on the performance of accelerated program students at Francis Marion University, including progress toward degree, credits completed, cumulative GPA, and major, and ultimate graduation success. Reports will be developed to compare the student results over time.
8. Will host an annual workshop for student advisors with the goal of providing up-to-date information related to the accelerated program and this agreement.
9. After successful completion of the first year of dental school (as defined by MUSC's academic standards), Francis Marion University will award the student an earned baccalaureate degree subject to students satisfying all applicable requirements outlined in the Francis Marion University Undergraduate Announcements and completion of the formal application for graduation.

REVIEW OF THE AGREEMENT

MUSC and FMU will both designate officials who will be responsible for all aspects of this accelerated agreement. Representing FMU will be the Associate Provost for Academic Affairs and Provost or other designated representative. Representing MUSC will be the Associate Provost for Educational Affairs and Student Life or designated representative.

Both parties agree to communicate the conditions of this agreement to their respective external and internal constituents. FMU and the MUSC will review this agreement a minimum of every three years and make adjustments or amendments as deemed appropriate to maintain the integrity of all institutions. Changes to the agreement will not adversely affect students already enrolled and covered under the provision of the existing agreement.

Each party retains the ability and sole discretion to change their internal policies and procedures that may relate to this program (e.g. MUSC can change minimum DAT scores, GPA etc. and Francis Marion University can change graduation requirements and requirements contained within their Undergraduate Announcements).

The term of this agreement shall be Ten (10) years. Either party can terminate the agreement early for any reason by giving at least 365 days prior written notice to the other party. Students who have correctly submitted the *Intent-to-Participate* form with FMU, prior to agreement termination, may participate in the program if they meet all of the requirements of this agreement. Notice of termination shall be in writing and shall be effective when delivered personally or five days after being sent by certified or registered mail (return receipt requested) to the other party at the addresses given below:

FMU: Provost – Francis Marion University
 P.O. Box 100547
 Florence, SC 29502

MUSC: Provost – Medical University of South Carolina
 Colcock Hall
 171 Ashley Avenue
 Charleston, SC 29425

Terms

(1) This agreement shall be interpreted in accordance with the laws of the State of South Carolina. Sole jurisdiction for any legal action between the parties arising out of this agreement shall rest with the appropriate courts located within the State of South Carolina.

(2) Waiver by any party of any term or provision of the agreement shall not constitute a continuing waiver thereof nor any further or additional rights such party may hold under this agreement.

(3) If any provision of this agreement shall be held to be invalid, illegal, or unenforceable, the validity, legality or enforceability of the remaining provisions shall not be in any way affected or impaired.

(4) This agreement is the complete and exclusive statement between the parties relating to the subject matter hereof, and supersedes all prior understandings, communications, representations, either oral or written, between the two parties.

(5) This agreement may not be modified or altered except by a written instrument duly executed by authorized signatories of the parties.

(6) Unless expressly stated to the contrary elsewhere in this agreement, all rights, powers, and privileges conferred hereunder upon the parties shall be cumulative and not restrictive of those given by law.

(7) This agreement shall not be assigned by any party hereto without the prior written consent of the other parties.

In witness thereof, the parties hereto have caused this agreement to be executed and effective as of the date and year first above written.

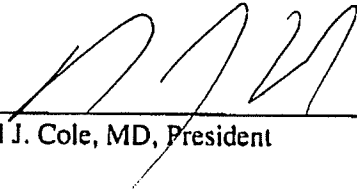
FRANCIS MARION UNIVERSITY



Luther F. Carter, PhD, President

Date 7/2/18

MEDICAL UNIVERSITY OF SOUTH CAROLINA



David J. Cole, MD, President

Date 6/28/18

OFFICE OF THE
GENERAL COUNSEL
MUSC/MUHA
-APPROVED AS TO FORM-
BY: CRS
DATE: 4-9-18

An Articulation Agreement Between the
MEDICAL UNIVERSITY OF SOUTH CAROLINA
and
FRANCIS MARION UNIVERSITY

**ACCELERATED PATHWAY TO
MEDICAL SCHOOL**

Francis Marion University (FMU) and the Medical University of South Carolina (MUSC) recognize the need for a program that reduces student's overall educational cost from undergraduate education through medical school and retains the most talented students in our state. In an effort to ease the transition process and to promote the closer coordination of academic courses, programs and degrees offered by our institutions, MUSC and FMU do hereby enter into the following articulation agreement titled "Accelerated Pathway to Medical School."

Academic admissions agreement

The Accelerated Path to Medical School agreement facilitates eligibility for some outstanding FMU students to apply for admittance to MUSC's doctorate in medicine (MD) degree after completing 90 semester hours of undergraduate education at FMU. These 90 hours include all general education courses and pre-requisite courses required by the MD program. Admission to the MD program is not guaranteed. All admissions decisions will be made solely by MUSC. If admitted to the MD program, FMU accelerated students are held to the same standards and progress guidelines as all other students in the MD program. After successful completion of the first year of medical school (as defined by MUSC's academic standards), Francis Marion University will award the student an earned baccalaureate degree subject to students satisfying all applicable requirements outlined in the Francis Marion University Undergraduate Announcements and completion of the formal application for graduation. This '3+4' agreement affords FMU students a more accelerated route to entering the workforce and reduces their education-related debt.

All FMU students, including those in the Accelerated program, will be treated identically with regard to admission to competitive programs at MUSC.

Eligibility requirements

To apply for this accelerated program at MUSC, FMU students must meet the following eligibility requirements:

1. Standardized Testing:

1.a. Applicants must take the Medical College Admissions Test (MCAT) prior to June 30 following completion of the sophomore year (for Early Decision applicants) or prior to July 30 following their sophomore year (for Regular Admission applicants).

1.b. The current minimum score accepted by MUSC on the MCAT is 508 (which may change annually, but the standard is that the score falls in the top quartile).

1.c. Students are encouraged to repeat the MCAT if their initial score is less than 508. MUSC's MD admissions committee will consider the highest total MCAT score submitted. There is no penalty or negative connotation associated with multiple MCAT attempts.

2. Minimum undergraduate grade point average (GPA):

An Applicant's unadjusted GPA at the time of application must be ≥ 3.5 .

3. Prerequisite courses:

3.a. Students must complete a minimum of 90 semester credit hours at FMU (not including any AP credits, IB credits, or dual-credit high school courses) prior to matriculating at MUSC.

3.b. *Required courses:* All General Education requirements must be completed prior to matriculating at MUSC.

3.c. *Recommended courses:* It is recommended but not required that students complete two semesters of the following courses prior to applying to MUSC: general biology, general chemistry, organic chemistry, and physics.

3.d. *Suggested courses:* Other suggested courses that are valuable in preparing for the MD curriculum are anatomy, biochemistry, cell biology, developmental biology, genetics and physiology. The following courses are also suggested to support preparation for the MCAT: two semesters of introductory biology, introductory physics, general chemistry, organic chemistry, biochemistry, sociology and psychology.

4. Internship Experience:

All applicants are expected to complete significant experiences providing clinical exposure to inform their decision to enter medicine. These experiences, ideally, should be attained through participation in a formal FMU internship (or similar) supervised course and independent student planning. The latter would demonstrate a personal commitment to explore this career path.

5. Program Interview:

Each applicant's materials undergo initial review by the College of Medicine Admissions Office. Each applicant that passes the initial review is required to have three interviews before a final admissions decision is made.

5.a. The first interview is with an outside practicing physician approved as an Off-Site interviewer by MUSC. The remaining interviews take place on the MUSC campus.

5.b. Interviews are by invitation only and the applicant is informed of the need for these interviews by MUSC's College of Medicine. The student is given instructions about contacting the outside physician for an interview (prior to coming to MUSC for the two additional interviews).

5.c. Interviews necessary for consideration for Early Decision admission will occur in September, and admission decisions will be posted by October 1st. Interviews for Regular Admission will occur from October through March 15th.

6. Faculty Advisor or Department Chair Letter:

A recommendation from the appropriate Faculty Advisor or Department Chair at FMU endorsing the accelerated student is required. The letter should outline the student's special characteristics that demonstrate that he/she is prepared, both academically and developmentally, for the rigors of medical school.

The letter should be included in the student's medical school application materials and should be sent directly to the MUSC College of Medicine Admission Office at the following address:

College of Medicine Admissions Office
96 Jonathan Lucas Street
Suite 601, MSC 617
Charleston, SC 29425

Application timeframe

There are two annual application timeframes for admission to MUSC's MD program (applicable to all applicants, not only to FMU students participating in the Accelerated Path)—one for Early Decision (wherein applicants agree to attend if they are accepted) and Regular Admissions. If an applicant for Early Decision is not accepted during Early Decision phase, his/her application is automatically entered into the Regular Admissions process.

MUSC College of Medicine requires that all applicants to its program route through the American Medical College Application Service (AMCAS). AMCAS is a centralized medical school application processing service. Electronic applications may be accessed through the Association of American Medical College (AAMC) website at <http://www.aamc.org/>.

Accelerated Path FMU students who apply to the College of Medicine at MUSC must submit a completed application for admissions, including the AMCAS application, by August 1 following the completion of two years of study at FMU to apply to MUSC's College of Medicine for Early Decision. For Regular Admissions applicants, the deadline is November 1.

Early decision process

Applications from students who apply for Early Decision but are not accepted on October 1 will continue as active applications in the regular admission process. New MCAT scores from exam dates as late as January (February score reports) and first semester junior year grades (December transcripts) may be submitted and will be used to recalculate the applicant's admission score for consideration prior to the completion of the regular selection period.

Interaction between MUSC and FMU accelerated students

There is no requirement or expectation for MUSC's College of Medicine Admissions Office to meet with FMU accelerated students prior to their application.

Responsibilities

FMU Students:

1. Must meet eligibility requirements to participate in this program. At the time of application a student must have completed at least 22 hours of math and science courses and have a GPA ≥ 3.5 . Admission into this program is selective.
2. Will complete the *Intent-to-Participate* form as developed by Francis Marion University if interested in participating in this program. A blank copy of an initial Intent-to-Participate form is attached for information purposes. Francis Marion University retains discretion to modify this form as it deems appropriate at any time.
3. If after filing the *Intent-to-Participate* form with the Francis Marion University Registrar's Office or other designated office, the student desires to withdraw from the program or attend another college or university, the student must notify their Academic Advisor, the Biology Department Chair, and the Registrar's Office or other designated office that he/she is withdrawing from the program.
4. Will be responsible for understanding and following the requirements for the FMU and MUSC degrees, and the specific requirements for their intended major at Francis Marion University.
5. Will meet all of the MUSC eligibility and admission requirements for the accelerated pathway to medical school program as outlined above.
6. Will follow all application processes and timelines outlined above for admission to MUSC.
7. Are expected to keep their FMU academic advisor updated on their status in applying or participating in the accelerated program.
8. If a student leaves MUSC before 30 credits are earned, the student may seek to transfer completed MUSC credits on a course-by-course basis using FMU's credit

transfer processes. Any credits transferred will only count toward the elective hours needed for the biology degree.

MUSC:

1. Will collaborate with Francis Marion University's health professions coordinators.
2. Will co-develop (with FMU) and ensure accurate information is posted on a new FMU-MUSC Accelerated Pathway to Medical School website.
3. Will ensure that all degree programs comply with specialty and regional accreditation policies.
4. Will review the *Intent-to-Participate* form and recommend changes as needed on at least an annual basis.

Francis Marion University:

1. Will share information about the Accelerated Pathway to Medical School program to undergraduate students across the university. FMU has discretion to determine how to share information. Examples of possible ways include but are not limited to putting information on the Francis Marion University website, through advisors, e-mail lists etc.
2. Will co-develop (with MUSC) and ensure accurate information is posted on a new FMU-MUSC Accelerated Pathway to Medical School website.
3. Will provide interested students with an *Intent-to-Participate* form.
4. Will maintain records of all students who complete the *Intent-to-Participate* form and send this information to MUSC, in an approved format, each semester subject to obtaining permission from the student.
5. Will inform MUSC of those students who withdraw from the accelerated program.
6. Will provide advising and an opt-out plan of study for students in the accelerated program who change their career and/or graduate student goals.
7. Will track data on the performance of accelerated program students at Francis Marion University, including progress toward degree, credits completed, cumulative GPA, and major, and ultimate graduation success. Reports will be developed to compare the student results over time.
8. Will host an annual workshop for student advisors with the goal of providing up-to-date information related to the accelerated program and this agreement.
9. After successful completion of the first year of medical school (as defined by MUSC's academic standards), Francis Marion University will award the student an

earned baccalaureate degree subject to students satisfying all applicable requirements outlined in the Francis Marion University Undergraduate Announcements and completion of the formal application for graduation.

REVIEW OF THE AGREEMENT

MUSC and FMU will both designate officials who will be responsible for all aspects of this accelerated agreement. Representing FMU will be the Associate Provost for Academic Affairs and Provost or other designated representative. Representing MUSC will be the Associate Provost for Educational Affairs and Student Life or designated representative.

Both parties agree to communicate the conditions of this agreement to their respective external and internal constituents. FMU and the MUSC will review this agreement a minimum of every three years and make adjustments or amendments as deemed appropriate to maintain the integrity of all institutions. Changes to the agreement will not adversely affect students already enrolled and covered under the provision of the existing agreement.

Each party retains the ability and sole discretion to change their internal policies and procedures that may relate to this program (e.g. MUSC can change minimum MCAT scores, GPA etc. and Francis Marion University can change graduation requirements and requirements contained within their Undergraduate Announcements).

The term of this agreement shall be Ten (10) years. Either party can terminate the agreement early for any reason by giving at least 365 days prior written notice to the other party. Students who have correctly submitted the *Intent-to-Participate* form with FMU, prior to agreement termination, may participate in the program if they meet all of the requirements of this agreement. Notice of termination shall be in writing and shall be effective when delivered personally or five days after being sent by certified or registered mail (return receipt requested) to the other party at the addresses given below:

FMU: Provost – Francis Marion University
 P.O. Box 100547
 Florence, SC 29502

MUSC: Provost – Medical University of South Carolina
 Colcock Hall
 171 Ashley Avenue
 Charleston, SC 29425

Terms

(1) This agreement shall be interpreted in accordance with the laws of the State of South Carolina. Sole jurisdiction for any legal action between the parties arising out of this agreement shall rest with the appropriate courts located within the State of South Carolina.

(2) Waiver by any party of any term or provision of the agreement shall not constitute a continuing waiver thereof nor any further or additional rights such party may hold under this agreement.

(3) If any provision of this agreement shall be held to be invalid, illegal, or unenforceable, the validity, legality or enforceability of the remaining provisions shall not be in any way affected or impaired.

(4) This agreement is the complete and exclusive statement between the parties relating to the subject matter hereof, and supersedes all prior understandings, communications, representations, either oral or written, between the two parties.

(5) This agreement may not be modified or altered except by a written instrument duly executed by authorized signatories of the parties.

(6) Unless expressly stated to the contrary elsewhere in this agreement, all rights, powers, and privileges conferred hereunder upon the parties shall be cumulative and not restrictive of those given by law.

(7) This agreement shall not be assigned by any party hereto without the prior written consent of the other parties.

In witness thereof, the parties hereto have caused this agreement to be executed and effective as of the date and year first above written.

FRANCIS MARION UNIVERSITY



Luther F. Carter, PhD, President

7/2/18

Date

MEDICAL UNIVERSITY OF SOUTH CAROLINA



David J Cole, MD, President

6/28/18

Date

OFFICE OF THE
GENERAL COUNSEL
MUSC/MUHA
-APPROVED AS TO FORM-
BY: OCF
DATE: 4-9-18