

SOUTH DAKOTA BOARD OF REGENTS

Academic and Student Affairs

AGENDA ITEM: 9 – H (6)

DATE: June 28-30, 2016

SUBJECT: New Program: SDSU BS in Human Biology

South Dakota State University (SDSU) requests authorization to offer a Bachelor of Science (BS) in Human Biology. The proposed BS in Human Biology will replace the BS in Biology – Pre-professional Specialization to more accurately reflect the uniqueness and focus of the program. The proposed program focuses on professional training in specialized health care delivery; the existing specialization has a history and intent of preparing future rural and primary care providers, including those who later receive graduate studies at the University of South Dakota’s programs in medicine.

The Board approved the Intent to Plan at the March-April 2016 meeting with the following conditions:

1. *The university will research existing curricula, consult with experts concerning the curriculum, and provide assurance in the proposal that the program is consistent with current national standards and with the needs of employers.*
2. *The proposal will define the specific knowledge, skills, and competencies to be acquired through the program, will outline how each will be obtained in the curriculum and will identify the specific measures to be used to determine whether individual students have attained the expected knowledge, skills, and competencies.*
3. *The university will not request new state resources and the program proposal will identify the sources and amounts of all funds needed to operate the program and the impact of reallocations on existing programs.*

University Mission and Priorities

The proposed major in Early Education and Care is within the statutory mission of SDSU as provided in SDSCL 13-58-1: *Designated as South Dakota’s land grant university, South Dakota State University, formerly the state college of agriculture and mechanical arts, shall be under the control of the Board of Regents and shall provide undergraduate and graduate programs of instruction in the liberal arts and sciences and professional education in agriculture, education,*

(Continued)

DRAFT MOTION 20160628_9-H(6): I move to approve SDSU’s B.S. in Human Biology as described in Attachment I.

engineering, home economics, nursing and pharmacy, and other courses or programs as the Board of Regents may determine. In addition, the proposed program supports SDSU priorities by supporting its land-grant mission, supporting innovating teaching and learning programs, and supporting research and innovation.

System Strategic Goals

The proposed program aligns with Board of Regents' Strategic Plan 2014-2020 to grow the number of undergraduate degrees awarded, improve STEM education, and promote economic development.

Workforce Need, Student Demand, Projected Graduates

SDSU's existing BS in Biology – Pre-professional Specialization has averaged 58 graduates annually in recent years. The program will provide undergraduates with background required for further graduate education in specialized health care delivery. The South Dakota Department of Health reports most counties within the State have a shortage of primary care providers. SDSU expects the program will graduate 70 students per year after full implementation.

Development

SDSU developed the program through review of the existing specialization. No new courses are required to implement the program.

Board Policy

SDSU is not requesting any exceptions to Board Policy.

Off Campus and Distance Delivery

SDSU is not requesting authorization for off campus or distance delivery.

Budget and Resources

SDSU does not request any new State resources to implement or maintain the proposed program and will fund the program through reallocation of existing resources.

**South Dakota Board of Regents
New Undergraduate Degree Program**

University:	South Dakota State University
Major:	Human Biology
Existing or New Major (s):	New
Degree:	Bachelor of Science (B.S.)
Existing or New Degree (s):	Existing
Intended Term of Implementation	Fall 2016
Proposed CIP code:	26.0101
University Department	Biology and Microbiology
University Division	College of Agriculture and Biological Sciences

University Approval

To the Board and the Executive Director: I certify that I have read this proposal, that I believe it to be accurate, and that it has been evaluated and approved as provided by university policy.



President of the University

April 27, 2016

Date

After approval by the President, a signed copy of the proposal should be transmitted to the Executive Director. Only after the Executive Director's review should the proposal be posted on the university web site and the Board staff and the other universities notified of the URL.

1. What are the purposes of the proposed program?

South Dakota State University (SDSU) requests authorization to offer a Bachelor of Science degree in Human Biology. Currently, SDSU is authorized to deliver the Biology major with a Pre-professional specialization. This specialization will be terminated with approval of this new major. This change will more accurately reflect the uniqueness and focus of this program.

The program has a history and strategic intent to prepare future rural and primary care providers. This is shown through the graduate's choice of specialty and practice location and the department's recruitment, advising, and mentoring of undergraduates to programs that align with this intent (e.g. University of South Dakota's doctorate in medicine (M.D.) and physician assistant programs, and chiropractic (D.C.) and osteopathic (D.O.) medical programs across the region and nation).

This new major will not replace the current career interests areas of Pre—Medicine, Dental, Chiropractic, Optometry, Physician Assistant, or Mortuary. The continuation of this tracking mechanism is needed as some students seek to prepare for healthcare training through other undergraduate programs (e.g. chemistry, biochemistry, psychology, etc.).

SDSU does not intend to request new State resources to develop or implement this program.

Expected Demand For Graduates

The B.S. in Human Biology is intended to help students become competitive for further

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professional training in an area of specialized health care delivery (e.g. M.D., D.O., O.D., D.C., physician assistant, etc.). The South Dakota Department of Health, shows that most counties within South Dakota currently have a shortage of primary care providers.¹ Increasing the professional primary care training pipeline is currently happening within the state and region.² This new bachelor's program will help to supply graduates to fill this shortage by providing opportunities for students to become more competitive for admission to professional training programs in and out of the state. Research conducted by ACT shows that in 2014, although interest in STEM careers is high in South Dakota, the student's academic preparedness in STEM needs to improve.³

If students choose early within their academic program to no longer pursue professional school admission, highly trained academic advisors will utilize career planning resources to redirect students to appropriate degree programs. Several on-campus majors require identical or similar core curriculum within the first 4 semesters, such as Health Education, Pharmacy, Nursing, Microbiology, Biotechnology, Biology-Secondary Education, Medical Laboratory Sciences and others.

If students choose later within their academic program to no longer pursue professional school admission upon graduation with the B.S. Human Biology they will be competitive within the job market. According to Carnevale⁴ graduates of STEM programs "competencies are valued in a growing share of highly paid non-STEM occupations". This is highlighted by the data indicating that across nearly all sectors STEM graduates earn significantly higher salaries, even when working in non-STEM fields⁵.

Need for the Proposed Program

The proposed major is needed due to the increasingly competitive market for professional school admission in the health sciences (medicine, dentistry, etc.). In addition, the new program provides a more delineated curriculum for students and thus will allow for the department and its graduates to more clearly communicate the content of this degree's curriculum to stakeholders.

University Mission and Priority

The proposed major in Human Biology is within the statutory mission of SDSU as provided in SDCL 13-58-1: *Designated as South Dakota's land grant university, South Dakota State University, formerly the state college of agriculture and mechanical arts, shall be under the control of the Board of Regents and shall provide undergraduate and graduate programs of instruction in the liberal arts and sciences and professional education in agriculture, education, engineering, home economics, nursing and pharmacy, and other courses or programs as the Board of Regents may determine.*

Board Policy 1:10:2 South Dakota State University Mission Statement provides: *The legislature established South Dakota State University as the Comprehensive Land Grant University to meet the needs of the State and region by providing undergraduate and graduate programs of instruction in the liberal arts and sciences and professional education in agriculture, education,*

¹ <https://doh.sd.gov/documents/Providers/RuralHealth/HPSA.pdf>

² <http://www.usd.edu/news/2014/usd-sanford-school-of-medicine-expanding-medical-class-sizes>

³ <http://www.act.org/stemcondition/14/pdf/SouthDakota.pdf>

⁴ <https://www.census.gov/programs-surveys/acs/>

⁵ <https://cew.georgetown.edu/report/stem/>

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engineering, human sciences, nursing, pharmacy, and other courses or programs as the Board of Regents may determine (SDCL 13-58-1).

As the state's land-grant institution, SDSU provides opportunities for all students of the state and region to prepare themselves for successful admission to professional programs in healthcare. The Department of Biology and Microbiology has a long history of preparing students for careers as future leaders and professionals in healthcare and this program continues to build upon that previous success. This program is designed to help prepare and make competitive residents of the state, region, and nation to successfully be admitted and find success in professional programs in healthcare.

A bachelor's degree in Human Biology supports the goals stated in the South Dakota Board of Regents Strategic Plan 2014-2020:

Goal 1 – Student Success

- Increase total undergraduate degrees awarded
- Improve retention and graduation rates

Goal 2 – Academic Quality and Performance

- Grow the number of students participating in experiential learning through undergraduate research experiences and/or industry internships

Goal 3 – Research and Economic Development

- STEM Education
- Economic Development

A Human Biology program also supports South Dakota State University's strategic plan, IMPACT 2018⁶, specifically:

Goal 1 – Academic Excellence

- Promote academic excellence through quality programs, engaged learners and an innovative teaching and learning environment.

Goal 2 – Research and Innovation

- Generate new knowledge, encourage innovations and promote artistic and creative works that contribute to the public good and result in social, cultural or economic development for South Dakota, the region, the nation and the world.

2. Rationale

A. What is the rationale for the curriculum?

The rationale for the curriculum resides in the fact that the current B.S. in Biology - Pre-professional Specialization is a strong preparation for professional school admission and success. The proposed curriculum for the B.S. in Human Biology is identical to the current B.S. Biology - Pre-professional Specialization.

B. Demonstrate that the curriculum is consistent with current national standards.

Complete the tables below and explain any unusual aspects of the proposed curriculum.

⁶ <http://www.sdstate.edu/impact2018>

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The program prepares students for entrance exams to professional school (e.g. MCAT, DAT, OAT, etc.), professional school training, and provides additional upper division coursework (e.g. Immunology, Medical Microbiology, Bioethics, Advanced Physiology, etc.) that better prepare students for their transition and future success in professional training programs in healthcare. This program is consistent with pre-requisites coursework required by professional programs and is enhanced by unique upper division courses like Cancer Biology, Virology, Parasitology, and Molecular & Microbial Genetics.

C. If a new degree is proposed, what is the rationale?

This is not a new degree. SDSU is already authorized to deliver a B.S. degree.

D. Summary of the Degree Program

B.S. in Human Biology	Credit Hours	Credit Hours	Percent
System General Education Requirements	34		
Institutional Graduation Requirements	5		
Subtotal, Degree Requirements		39	33%
Required Support Courses	30-31		
Major Requirements	38-42		
Subtotal, Program Requirements		68-73	56%-60%
General Electives		8-13	7%-11%
Degree Total		120	100%

System General Education Requirements

Prefix	Number	Course Title	Credit Hours	New (yes, no)
ENGL	101	Composition I (SGR #1)	3	No
ENGL	201	Composition II (SGR #1)	3	No
SPCM	101	Fundamentals of Speech (SGR #2)	3	No
PSYC	101	General Psychology (SGR #3)	3	No
SOC	100	Introduction to Sociology (SGR #3)	3	No
PHIL	220	Introduction to Ethics (SGR #4)	3	No
		Student Choice (SGR #4)	3	No
MATH	115	Precalculus (5) (SGR #5)	5	
or MATH	121	Survey of Calculus & Lab (5) (SGR #5)		No
BIOL	151-151L	General Biology I & Lab (SGR #6)	4	No
BIOL	153-153L	General Biology II & Lab (SGR #6)	4	No
		Subtotal	34	

Institutional Graduation Requirements

BIOL	109	First Year Seminar (IGR #1)	2	No
		Student Choice (IGR #2)	3	No
		Subtotal	5	

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Required Support Courses outside the Major

Prefix	Number	Course Title	Credit Hours	New (yes, no)
CHEM	112 -112L	General Chemistry I and Lab	4	No
CHEM	114 -142L	General Chemistry II and Lab	4	No
CHEM	326 -326L	Organic Chemistry I and Lab	4	No
CHEM	328 -328L	Organic Chemistry II and Lab	4	No
ENGL	379	Technical Communication	3	No
MATH or STAT	125	Calculus II (4)	3-4	No
	281	Introduction to Statistics (3)		
PHYS	111-111L	Introduction to Physics I and Lab	4	No
PHYS	113-113L	Introduction to Physics II and Lab	4	No
		Subtotal	30-31	

Major Requirements

Prefix	Number	Course Title	Credit Hours	New (yes, no)
BIOL	202-202L	Genetics and Organismal Biology and Lab	4	No
BIOL	204-204L	Genetics and Cellular Biology and Lab	4	No
BIOL	221-221L	Human Anatomy and Lab	4	No
BIOL	290	Seminar	1	No
BIOL	325-325L	Physiology and Lab	4	No
BIOL	490	Seminar: Capstone I	2	No
MICR	233-233L	Introductory Microbiology and Lab	4	No
MICR	439	Medical and Veterinary Immunology	3	No
Select <u>4</u> courses from the following list.			12-16	
BIOL	383	Bioethics	4	No
BIOL	470	Cancer Biology	3	No
BIOL	467-467L	Parasitology & Lab	3	No
BIOL	476	Advanced Mammalian Physiology	4	No
BIOL	494	Internship	3	No
BIOL	498	Undergraduate Research/Scholarship	3	No
CHEM	464	Biochemistry I	3	No
MICR	424	Medical and Vet. Virology	3	No
MICR	433	Medical Microbiology	3	No
MICR	436 ⁷	Molecular and Microbial Genetics	4	No
MICR	440L	Infectious Disease Lab	3	No
PE	454/L	Biomechanics	3	No
		Subtotal	38-42	

⁷ Currently MICR 436. Minor course modification pending to change the course to MICR 448.

3. Student Outcomes & Demonstration of Individual Achievement

A. What specific knowledge and competencies, including technology competencies, will all students demonstrate be able to demonstrate before graduation?

Student competencies are guided by the American Association for the Advancement of Science (AAAS) and National Science Foundation's (NSF) Vision and Change⁸, current professional school entrance exams and feedback from professional schools, health professions advising organizations (National Association of Advisors for the Health Professions and American Medical Student Association), SDSU alumni and professionals in the field.

Students will demonstrate understanding and apply:

- principles of evolution,
- biological structure and function,
- information flow, exchange, and storage,
- biological and biochemical pathways and transformations of energy and matter,
- biological systems,
- the process of science,
- quantitative reasoning,
- interdisciplinary nature of science,
- effective communication and collaboration with other disciplines,
- the relationship between science and society,
- the biology, biochemical, physiological and structural of the human body.

See Appendix A for specific courses which meet these outcomes.

B. What national instruments (examinations) are available to measure individual student achievement in this field?

There is no national standard exam for this field, although core scientific competencies will be measured using the science exam by ACT Collegiate Assessment of Academic Proficiency (CAAP) upon graduation.

C. How will mastery by individual students be demonstrated? Describe the specific examinations or processes to be used. This is to include external measures.⁹ What will be the consequences for students who do not demonstrate mastery?

Mastery will be demonstrated through completion of the CAAP science exam and upon successful completion of the Senior Capstone. The capstone includes BIOL 490 – Capstone Seminar followed by ENGL 379 – Technical Communication (for Biology/Human Biology/Microbiology/Biotechnology majors only). This sequence will support and challenge students to demonstrate their scientific and communication skills prior to graduation. Throughout this capstone students will have an experience that synthesizes their

⁸ <http://visionandchange.org>

⁹ What national examination, externally evaluated portfolio or student activity, etc will be used to verify that individuals have attained a high level of competence and identify those who need additional work?

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experiential, data analysis, writing and speaking through project based learning.

This capstone sequence of courses is a required component of the B.S. Human Biology and students must demonstrate mastery of their content and communication to progress to graduation.

A grade of C or higher is required for all major requirements including the BIOL, MICR, MATH, STAT, CHEM 112, CHEM 114, CHEM 326, CHEM 328, CHEM 464, PHYS 111, and PHYS 113.

4. What instructional approaches and technologies will be used to teach courses in the program? *This refers to the instructional technologies used to teach courses and NOT the technology applications students are expected to learn.*

Many members of the Biology and Microbiology Department faculty are nationally trained in the pedagogy of teaching and learning. They attend and present at local, regional and national conferences and 6 faculty/staff have been awarded the Education Fellowship in the Life Sciences from the National Academy of Sciences. Faculty incorporate hands on learning in each laboratory course and in lecture use online learning modules, PowerPoint, Doceri, and many courses are delivered in an active learning environment.

Additionally, numerous faculty have been trained and utilize metacognitive approaches to teaching and learning.

5. Did the University engage any developmental consultants¹⁰ to assist with the development of the curriculum? Were any professional or accrediting associations consulted during the development of the curriculum? What were the contributions of the consultants and associations to the development of curriculum?

No consultants were engaged. There is no professional or accrediting association. This new B.S. takes a successful program at the specialization level and moves it into its own stand alone B.S. major.

6. Are students in the program expected to be new to the university, redirected from other programs or both? Complete the table and explain how the estimates were developed. If authorization for off-campus or distance delivery is requested in Section 9, add lines to the table for off-campus/distance students, credit hours, and graduates.

It is expected that students for this major will be both new to the university and redirected from the Biology (B.S.) – Pre-professional Specialization. Incoming students who would have been choosing the existing Pre-professional specialization will be redirected to the new program. Current Pre-professional specialization students will transition to the new B.S. in Human Biology. The Pre-professional specialization will stop admitting students on May 9, 2016 and will be deleted on May 16, 2018.

¹⁰ Developmental consultants are experts in the discipline are hired by the university to assist with the development of a new program (content, courses, experiences, etc). Universities are encouraged to discuss the selection of developmental consultants with Board staff.

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The program name will help SDSU to recruit additional students to the university who may have been interested in universities and pre-professional preparation outside of the state. Enrollment and graduation rates are expected to remain similar or slightly increase. In the table below, the enrollment estimates were calculated based on estimated graduation rate of 70%, 80% retention from year 1 to 2, 90%+ retention from year 3 to 4. The demand for the program will continue to be strong as 316 students were enrolled in the Pre-professional Specialization in the fall of 2015. Sixty-one (61) degrees in the Pre-professional Specialization were awarded in the 2014-2015.

	Fiscal Years*			
	1st	2nd	3rd	4th
Estimates	FY17	FY18	FY19	FY20
Students new to the university	100	110	115	120
Students from other university programs	216 ^A	10	10	10
Continuing students	0	206	206	206
= Total students in the program (fall)	316	326	331	336
Program credit hours (major courses)**	3160	3260	3310	3360
Graduates	61	67	70	72

* Do not include current fiscal year.

** This is the total number of credit hours generated by students in the program in the required or elective program courses. The same numbers are used in Appendix B – Budget.

^A Students redirected from Biology (B.S.) - Pre-professional Specialization.

7. If program accreditation is available, identify the organization and explain whether accreditation is required or optional, the resources required, and the University's plans concerning the accreditation of this program.

There is no program accreditation currently available for the proposed program.

8. Does the University request any exceptions to any Board policy for this program? Explain any requests for exceptions to Board Policy. If no exceptions are requested, enter "None."

None

9. Program Delivery

A. Does the University request authorization to deliver this entire program at any off-campus locations? If yes, list location(s) and intended start date(s).

No.

B. Does the University request authorization to deliver this entire program by distance technology? If yes, identify delivery method(s) and intended start date(s).

No.

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C. Include off-campus tuition and site or delivery costs in the next section and in Appendix B. If off-campus or distance delivery authorization is not requested, enter "None."

None

10. Costs, Budget and Resources

Explain the amount and source(s) of any one-time and continuing investments in personnel, professional development, release time, time redirected from other assignments, instructional technology & software, other O&M, facilities, etc needed to implement the proposed major. Address off-campus or distance delivery separately. Complete Appendix B Budget and Resources and briefly summarize.

A program budget is provided in Appendix B. The University does not request new State resources or new or increased student fees. The program will be supported through redirection of existing resources, tuition, and program fee revenue. This program will replace the B.S. in Biology - Pre-professional Specialization. No new resources are planned (FTE, courses, etc.).

Appendix A
Individual Student Outcomes and Program Courses

Individual Student Outcome	Program Courses that Address the Outcomes											
	BIOL 151	BIOL 153	BIOL 202	BIOL 204	MICR 233	BIOL 221	BIOL 325	MICR 439	STAT 281	BIOL 383	ENGL 379	BIOL 490
Students will demonstrate understanding and apply principles of evolution.	X	X	X	X	X							
Students will demonstrate understanding and apply biological structure and function.	X	X	X	X	X	X	X					
Students will demonstrate understanding and apply information flow, exchange, and storage.	X	X	X	X	X		X					
Students will demonstrate understanding and apply biological and biochemical pathways and transformations of energy and matter.	X	X	X	X	X		X	X				
Students will demonstrate understanding and apply biological systems.	X	X	X	X	X	X	X	X				
Students will demonstrate understanding and apply the process of science.	X	X	X	X	X		X	X				X
Students will demonstrate understanding and apply quantitative reasoning.	X	X	X	X	X		X		X		X	X
Students will demonstrate understanding and apply interdisciplinary nature of science.	X	X	X	X	X					X	X	X
Students will demonstrate understanding and apply effective communication and collaboration with other disciplines.	X	X	X	X	X						X	
Students will demonstrate understanding and apply the relationship between science and society.	X	X	X	X	X					X	X	
Students will demonstrate understanding and apply the biology, biochemical, physiological and structural of the human body.	X	X	X	X	X	X	X	X				

Appendix B
Budget & Resources

South Dakota State University, B.S. in Human Biology

1. Assumptions

		1st FY17	2nd FY18	3rd FY19	4th FY20
<i>Headcount & hours from proposal</i>					
Fall headcount (see table in proposal)					
Program FY cr hrs, State-Support		316	326	331	336
Program FY cr hrs, Self-Support		0	0	0	0
Faculty, Regular FTE	See p. 2	5.00	5.00	5.00	5.00
Faculty Salary & Benefits, average	See p. 2	\$88,464	\$88,464	\$88,464	\$88,464
Faculty, Adjunct - number of courses	See p. 2	0	0	0	0
Faculty, Adjunct - per course	See p. 2	\$1,000	\$1,000	\$1,000	\$1,000
Other FTE (see next page)	See p. 2	0.00	0.00	0.00	0.00
Other Salary & Benefits, average	See p. 2	\$8,622	\$8,622	\$8,622	\$8,622

2. Budget

<i>Salary & Benefits</i>					
Faculty, Regular		\$442,320	\$442,320	\$442,320	\$442,320
Faculty, Adjunct (rate x number of courses)		\$0	\$0	\$0	\$0
Other FTE		\$0	\$0	\$0	\$0
	S&B Subtotal	\$442,320	\$442,320	\$442,320	\$442,320
<i>Operating Expenses</i>					
Travel		\$0	\$0	\$0	\$0
Contractual Services		\$0	\$0	\$0	\$0
Supplies & materials		\$40,000	\$40,000	\$40,000	\$40,000
Capital equipment		\$9,000	\$9,000	\$9,000	\$9,000
	OE Subtotal	\$49,000	\$49,000	\$49,000	\$49,000
	Total	\$491,320	\$491,320	\$491,320	\$491,320

3. Program Resources

SELF-support tuition/hr, net of HEF	UG	\$297.45	\$297.45	\$297.45	\$297.45
Self-support tuition revenue	hrs x amt	\$0	\$0	\$0	\$0
STATE-support tuition/hr, net of HEFF	UG	\$115.76	\$115.76	\$115.76	\$115.76
State-support tuition revenue	hrs x amt	\$365,802	\$377,378	\$383,166	\$388,954
Program fee, per cr hr (if any)	\$40.00	\$126,400	\$130,400	\$132,400	\$134,400
Delivery fee, per cr hr (if any)	\$0.00	\$0	\$0	\$0	\$0
University redirections		\$0	\$0	\$0	\$0
Community/Employers		\$0	\$0	\$0	\$0
Grants/Donations/Other		\$0	\$0	\$0	\$0
Total Resources		\$492,202	\$507,778	\$515,566	\$523,354
Resources Over (Under) Budget		\$882	\$16,458	\$24,246	\$32,034

Provide a summary of the program costs and resources in the new program proposal.

Appendix B
Budget & Resources

South Dakota State University, B.S. in Human Biology

Estimated Salary & Benefits per FTE	Faculty	Other
Estimated salary (average) - explain below	\$70,000	\$0
University's variable benefits rate (see below)	0.1406	0.1406
Variable benefits	\$9,842.00	\$0
Health insurance/FTE, FY16	\$8,622	\$8,622
<i>Average S&B</i>	\$88,464	\$8,622

Explain faculty used to develop the average salary & fiscal year salaries used. Enter amount above.

The FY17 salaries of 5 people in the Biology & Microbiology were averaged from instructor through professor to \$70,000 (50/70/75/85)

Explain adjunct faculty costs used in table:

No courses are taught by adjunct faculty.

Explain other [for example, CSA or exempt] salary & benefits. Enter amount above.

None

Summarize the operating expenses shown in the table:

Supplies, materials and major equipment for teaching labs in the curriculum.

Summarize resources available to support the new program (redirection, donations, grants, etc).

None.

Appendix B
Budget & Resources

South Dakota State University, B.S. in Human Biology

State-support: Change cell on page 1 to use the UG or GR net amount.

Self-Support Tuition, HEFF & Net	FY16 Rate	HEFF	Net	
Undergraduate	\$325.25	\$27.80	\$297.45	<i>Change cell on page 1</i>
Graduate	\$431.25	\$42.16	\$389.09	
Externally Supported	\$40.00			

State-support: Change cell on page 1 to use the UG or GR net amount for your university.

State-Support Tuition, HEFF & Net	FY16 Rate	HEFF	Net	
UG Resident - BHSU, DSU, NSU	\$139.00	\$27.80	\$111.20	<i>Change cell on page 1</i>
UG Resident - SDSU, USD	\$144.70	\$28.94	\$115.76	<i>to point to your net</i>
UG Resident SDSMT	\$151.00	\$30.20	\$120.80	
GR Resident - BHSU, DSU, NSU	\$210.80	\$42.16	\$168.64	<i>Change cell on page 1</i>
GR Resident - SDSU, USD	\$219.35	\$43.87	\$175.48	<i>to point to your net</i>
GR Resident - SDSMT	\$224.65	\$44.93	\$179.72	

Variable Benefits Rates

University	FY16	
BHSU	14.27%	<i>Change the benefits rate cell in the table on page 2 to point to the rate for your university.</i>
DSU	13.84%	
NSU	14.00%	
SDSM&T	13.87%	
SDSU	14.06%	
USD	13.99%	