



# Category I Proposal Transmittal Sheet

Submit proposals to: Office of Academic Planning and Assessment  
110 Kerr Admin -- Oregon State University

For instructions, see <http://oregonstate.edu/ap/curriculum/cati.html>. Please attach Proposal, Library Evaluation (performed by the library), Liaison Correspondence, Faculty Curriculum Vitae, and Budget Sheets, as appropriate.

Check one:

### Full Proposal

- New degree program
- New certificate program or administrative unit
- Major change in existing program
- Establishment of a new College or Department

### Abbreviated Proposal

- Rename of an academic program or unit
- Reorganization – moving responsibility for an academic program from one unit to another
- Merging or splitting an academic unit
- Termination of an academic program or unit
- Suspension or reactivation an academic program or unit

For proposals to establish a new center or institute, contact the Research Office (737-3437).

For requests to offer existing certificate and degree programs at new locations, use the New Location Request Form available on the Web: <http://www.ous.edu/aca/aca-forms.html>

Title of Proposal:

Effective Date:

\_\_General Science name change\_\_

\_\_Fall 2013\_\_

Department/Program:

College:

\_\_General Science Program, Microbiology Dept\_\_

\_\_Science\_\_

**I certify that the above proposal has been reviewed and approved by the appropriate Department and College committees:**

\_\_\_\_\_  
Sign (Dept Chair/Head; Director)      Date

*Theo Dreher*  
*Janine E. Trempy*

Janine Trempy (GS), Theo Dreher (MB) \_\_\_\_\_  
Print (Department Chair/Head; Director)

*V. Remcho*  
\_\_\_\_\_  
Sign (Dean of College)      11-16-12  
Date

Vince Remcho \_\_\_\_\_  
Print (Dean of College)

# **Renaming an Academic Program Proposal**

## **BS in BioHealth Sciences**

### **Status: Pending Review - Curriculum Council Chair (Previous Version)**

Show All Reviews +

Proposal

Proposal ID: 85460

Type: Renaming an Academic Program

Submission Date: April 2, 2014 9:42am

Comments:

Proposal to change name and move administrative oversight to the Department of Microbiology

From: Theo Dreher, Chair of Microbiology

and Janine Trempy, Director of General Science Program

#### REVIEW PROCESS

College of Science -- APPROVED: December 5, 2012

Academic Programs Committee: January 25, 2013

Budgets and Fiscal Planning Committee --

Curriculum Council -- Approved 5/30/2014

Executive Committee:

Faculty Senate --

OSU Provost --

OUS Provosts' Council --

Final Action Date:

Effective Term:

History

Active Version - Submitted April 2, 2014 9:42am

Version 5 - Submitted February 19, 2014 8:16pm

Version 4 - Submitted January 22, 2013 1:43pm

Version 3 - Submitted December 19, 2012 4:30pm

Version 2 - Submitted December 5, 2012 10:53pm

Version 1 - Submitted November 30, 2012 10:41am

Originators

NAME	TITLE	DEPARTMENT/SCHOOL
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Theo Dreher	Department Chair	Microbiology (Science)
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Mariette Fulton	Asst to the Chair	Microbiology (Ag)
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Janine Trempey	Professor	Microbiology (Science)
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Contacts

NAME	TITLE	DEPARTMENT/SCHOOL
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Sastry Pantula	Dean-COS	College of Science Admin
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Proposal Details

Program Type: Undergraduate Major

Current Program Name: General Science - BS, CRED, HBS

New Program Name: BS in BioHealth Sciences

**Abbreviated Category I Proposal**

**PROPOSAL TITLE: *B.S. in BioHealth Sciences: Name Change and Administrative Transfer***

Change Degree Program Title:

**B.S. in General Science to B.S. in BioHealth Sciences**

Terminate Degree Program:

**B.S. in General Science**

*and*

Reorganize/Move Program

From: **Dean's Office, College of Science**

To: **Department of Microbiology, College of Science**

**Oregon State University  
College of Science  
Department of Microbiology**

**February 2013**

**Proposed Effective Term: Fall Term 2014 (201501)**

**CPS Tracking # 85460**

**CIT # 51.1199**

**A. Title of the proposed instructional, research, or public service unit. For name changes, give both the current and proposed names. Describe the reason(s) for the proposed change.**

Current name: BS in General Science (GS) undergraduate major

Proposed name: BS in BioHealth Sciences (BHS) undergraduate major

**Reasons for name change:** General Science is a degree built on specific health profession outcomes, embodied in 12 Options, one of which students must select. The degree is designed to accommodate pre-health professional school requirements, while providing a broad based science and liberal arts education. The General Science name does not align with these degree program outcomes, thus necessitating a name change. The proposed name, BioHealth Sciences, accurately reflects the strong emphasis on academic preparation of pre-health

professionals in the context of a broader biological sciences degree. This combined training in general biology with an emphasis on human health is a foundation for many career paths.

## **Abbreviated Category 1: Proposal Summary**

### **Change (Rename and Reorganization)**

#### **BS in BioHealth Sciences**

**(Renamed from: BS in General Science; CIP # 301801)**

- Degree Type: **Bachelor of Science (B.S.)**
- Program Type: **Undergraduate**
- Academic Home:  
*From:* **Dean's Office, College of Science**  
*To:* **Department of Microbiology, College of Science**
- Contacts:  
**Sastry Pantula, Dean of Science** [Sastry.Pantula@oregonstate.edu](mailto:Sastry.Pantula@oregonstate.edu)  
**Theo Dreher, Department of Microbiology**  
[theo.dreher@oregonstate.edu](mailto:theo.dreher@oregonstate.edu)
- Undergraduate Options: **No Change to 10 of the 12 options. Exceptions: Move Pre-Veterinary Medicine to the Department of Integrative Biology, and Terminate the Pre-Education Option (see Move" and "Terminate" below)**
- CPS #: **85460**  
<https://secure.oregonstate.edu/ap/cps/proposals/view/85460>
- CIP #: **51.1199**
- SIS #: **XXXX - To Be Assigned by the Registrar's Office**
- College Code: **08**
- Course Designator: **GS** (existing); **BHS** (proposed)
- Courses: **In addition to course designator changes (GS to BHS via separate Category II proposals) there will be several curriculum changes submitted, including the addition of three new courses that will follow approval of the Abbreviated Category I proposal.**
- Delivery Mode and Location: **OSU-Main (On-Campus)**
- Enrollment Limitations: **None**
- Accreditation: **None**
- Program Unique Within the Oregon University System: **Yes**
- Proposed Effective Term: **Fall Term 2014 (Banner: 201501)**

### **Terminate**

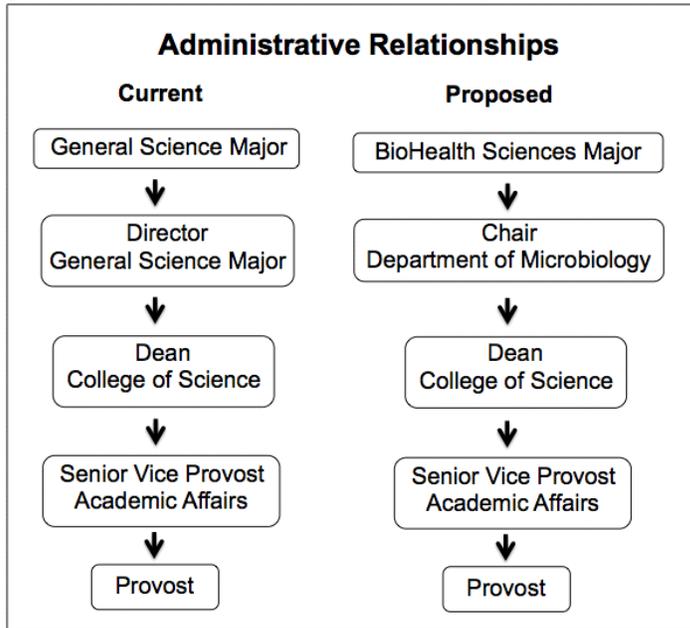
- **BS in General Science (CIP # 301801; SIS Major # 540)**
- **Pre-Education Option**
- **Pre-Veterinary Medicine Option**

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**B. Location within the institution's organizational structure. Include**

**"before" and "after" organizational charts (show reporting lines all the way up to the Provost).**

It is proposed to transfer administrative responsibility from a Director operating from the Office of the Dean to the Chair of the Department of Microbiology. The BS in General Science major is a degree without a closely connected group of faculty. Administrative transfer to the Department of Microbiology is intended to enhance the student experience for students by connecting the degree to a group of faculty committed to the



success and relevance of the program and its students. With a large emphasis on infectious diseases, the Department of Microbiology is the appropriate departmental home within the College of Science for a degree focused on preparation for careers in the human health professions.

**C. Objectives, functions (e.g., instruction, research, public service), and activities of the proposed unit.**

1. Explain how the program or unit's current objectives, functions, and/or

*activities will be changed. Where applicable, address issues such as course offerings, program requirements, admission requirements, student learning outcomes and experiences, and advising structure and availability. How will the reorganized program be stronger than the existing program?*

No changes are proposed to the objectives of the major: the goal remains to educate students in general biology with an emphasis on human health as an appropriate pathway for students with a career interest in the health professions. The name change will more accurately represent these intentions. This proposal will result in no changes to course offerings, program requirements or admission requirements.

Most of the courses taken by General Science students are offered through other majors, including Biology, Microbiology, Zoology, Biochemistry and Biophysics, Chemistry, Mathematics and Physics, etc. However, renaming the degree will necessitate renaming the following existing GS courses as BHS courses (via a subsequent expedited Category II proposal):

- GS 199 Special Studies is proposed to be renamed BHS 199
- GS 401 Research is proposed to be renamed BHS 401
- GS 403 Thesis is proposed to be renamed BHS 403
- GS 405 Reading and Conference is proposed to be renamed BHS 405
- GS 407 Seminar is proposed to be renamed BHS 407
- GS 410 Science Internship is proposed to be renamed BHS 410

The proposed administrative change to align the degree with the Department of Microbiology will not change the delivery or the availability of advising. The current degree-specific College of Science advising structure, which has successfully supported students applying to health professional schools, will be maintained. However, advisors responsible for BioHealth Sciences majors will now be housed in Nash Hall and be affiliated with and administered by the Department of Microbiology, instead of their current location, which is in the Office of the Dean. It is proposed that the three advisors responsible for the General Science degree program advising duties will advise BioHealth Sciences degree students, covering the current number of majors (about 815, matching the recommended 1:300 advisor/student ratio), while assisting with experiential learning.

The proposed administrative change is designed to improve student experiences and hence student learning outcomes through the connection of the major with faculty committed to providing oversight and a sense of commitment to program innovation, excellence and community for students. Two committees, comprised of Department of Microbiology

faculty and advisors, will be established to provide ongoing guidance to the major: (1) BioHealth Sciences Curriculum and Assessment Committee; and (2) BioHealth Sciences Recruitment, Engagement and Scholarships Committee. These committees will design experiential activities to enhance the major, with the goal of building community among students enrolled in this degree program through shared activities, with a focus on service learning. This focus will align with Oregon State University's service learning goal of providing students with multiple opportunities for experiential learning to enhance their educational experience. The BioHealth Sciences service learning activities will be developed in consultation with OSU's Service Learning Faculty Development Coordinator. These activities will strengthen the major in a way that complements the activities of existing health profession-specific clubs (e.g., pre-medical, pre-dental), which focus more on activities specific to each particular pre-health profession.

2. *Explain how outcomes in the newly organized program or unit will be assessed.*

Outcomes assessment will follow the methods we have developed for assessment of courses and the undergraduate major in the Department of Microbiology. Assessment of Program Learning Outcomes will use a variety of direct and indirect assessment methods to examine student learning. These methods will include pre- and post- test direct assessment in key courses, direct assessment of laboratory skills using rubrics, direct assessment of critical thinking and communication skills using rubrics in selected activities in upper division courses, analysis of retention/graduation/professional school acceptance rates, and student-conducted annual survey on the value of individual courses and the major as a whole. The summarized results of the survey will be presented to the Curriculum and Assessment Committee and used in considering program changes and improvements.

**D. Resources needed, if any: personnel, FTE academic, FTE classified, facilities and equipment.**

1. *Identify the staffing and resource needs for the proposed program or unit. Note any impact on the budgets of affected programs or units. Provide an analysis of how the resulting programs or units will be adequately staffed and funded.*

The proposed changes do not alter course delivery or advising needs; thus, no new personnel costs are anticipated. However, transfer of the degree program to the Department of Microbiology will require internal budgetary shifts in the College of Science from the Dean's Office to the Department of

Microbiology (advisor and OS1 support personnel costs and office supplies). See attached MOA from Dean Pantula, College of Science. No additional space will be needed, since the advisor and support staff offices will be accommodated in Department of Microbiology space vacated by staff who moved to the Arts and Sciences Business Center (ASBC).

2. *Explain the extent to which affected faculty and personnel support this change.*

The proposed changes, as well as longer-term plans outlined below, have been extensively discussed among faculty in the Department of Microbiology. There has been a strong sense of agreement and commitment to this plan. The proposed changes have been endorsed by the College of Science advising staff. The broader context for the proposed changes are parallel changes in programs offered by the other life science departments in the newly formed School of Life Sciences, College of Science: Biochemistry and Biophysics, and Integrative Biology (formerly Zoology). These proposed changes, outlined below in section G, are the result of general consensus reached through much discussion and planning college-wide.

**E. Funding sources: state sources (institutional funds - state general fund, tuition and fees, indirect cost recoveries), federal funds, other funds as specified.**

1. *Identify the revenue and funding sources for the proposed program or unit (i.e., federal, state, other funding sources).*

The sole role of the proposed BS in BioHealth Sciences major is undergraduate education. Currently, all courses taken by General Science majors (except Orientation GS 199) are provided by faculty from other programs, and that will remain the case if this proposal is approved. With time, BHS-specific courses will be added in order to keep the major optimally relevant. Advisor salaries and administrative costs associated with General Science will be transferred to the Department of Microbiology. Because no change in student numbers is expected (at least in the short term), no change in funding needs is anticipated. There is at present no direct revenue income associated with General Science, and this will remain the case for BioHealth Sciences.

2. *If new resources will be required (e.g., for new faculty positions, graduate research/teaching assistants, facilities, equipment), explain where these resources will be coming from. Specify whether internal reallocation, college, institution, federal, state, private, or other funding sources. [Note: Deans/chairs/heads/directors of units committed to providing additional*

*resources will be required to sign the proposal.]*

As indicated above, no new recurring resource needs are anticipated, and the appropriate resources will be transferred from the College of Science Dean's Office to the Department of Microbiology along with transfer of program administration. The transfer will involve three advisors and one OS1 administrative assistant. Department of Microbiology faculty will absorb the modest additional work associated with the establishment of BioHealth Sciences committees without the need for new resources. There are currently no funds associated with the role of Director of the General Science Program, and so no cost savings will occur.

New resources are needed for renovation of the existing Microbiology office suite on the second floor of Nash Hall in order to provide office space for the three advisors and a reception area. This renovation is in progress and will be funded by \$15,000 from the College of Science and up to \$5,000 by the Department of Microbiology.

3. *Provide an estimated annual budget for the proposed program or unit (see Appendices).*

The personnel costs for academic year 2014-15 for the BioHealth Sciences major are unchanged compared to the costs if the major remained as General Science. These costs cover three advisors, based on an enrollment of about 815, and an OS1 support person. The salary and OPE costs are presented in the budget, projected over 4 years. Modest support for services and supplies (\$5,000) is also shown.

With the move of advising to Nash Hall, one-time remodeling costs (estimated at \$20,000) will be needed to provide office space. The cost will be shared between the College and Department as indicated above.

## **F. Relationship of the proposed unit to the institutional mission.**

1. *How will the proposed program or unit support OSU's mission and goals?*

There will be no change to the existing mission of the BS in General Science major, which is to provide OSU students with an education in the basic biological sciences with an emphasis on human health and preparation for several career directions in the health professions. With a current enrollment of over 800 students, this major is clearly serving a need.

2. *Describe potential positive and negative impact of the proposed change on the program(s) or unit(s) involved. Identify other OSU programs or units*

*which may be affected, and describe the potential positive and negative impact on their mission and activities.*

Integration of the BioHealth Sciences major into the Department of Microbiology will add a new component to the department's mission. Through multiple faculty discussions, the department has embraced this change, recognizing the importance of undergraduate education to the University's mission and the close relationship of many aspects of human health to the field of microbiology.

Colleagues in the College of Public Health and Human Sciences (CPHHS) also teach students with career plans in the health professions. COS and CPHHS programs have been and will remain complementary, providing a health related education in distinct contexts.

The BS in General Science program has been a major pipeline for students in the OSU College of Pharmacy, and that should remain the case for the BS in BioHealth Sciences degree. We have been in discussion with the College of Pharmacy concerning planned adjustments to the major (see next section and liaison emails in the Appendix).

**G. Long-range goals and plans for the unit (including a statement as to anticipated funding sources for any projected growth in funding needs).**

1. *The current BS in General Science degree.*

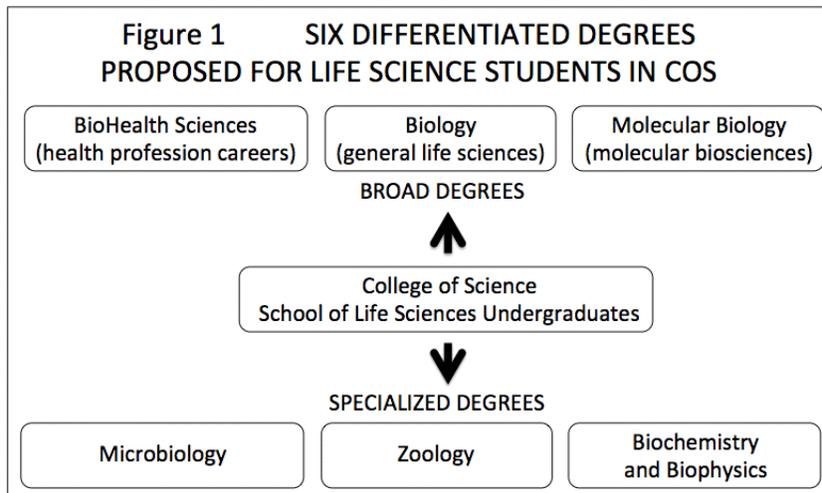
The BS in General Science degree is currently constructed with a strong focus on health professional school outcomes, embodied in eleven Options that address various health specializations: Pre-clinical laboratory science, pre-dentistry, pre-medicine, pre-nursing education, pre-occupational therapy, pre-optometry, pre-pharmacy, pre-physical therapy, pre-physician assistant, pre-podiatry, and pre-veterinary medicine. A twelfth option, pre-education, is also offered at OSU-Cascades. The most popular options in General Sciences are pre-pharmacy (50%), pre-dentistry (9%), pre-nursing (9%), and pre-physician assistant (10%), accounting for 78% of the 815 Fall 2013 students. Current enrollment numbers are shown in the Table. Students majoring in General Science must be enrolled in an Option. The course compositions of the various Options are outlined in Appendix 1.

<b>General Science Student Numbers, October 2013</b>							
	Freshman	Sophomore	Junior	Senior	Post Bac	INT O	Grand Total
General Science	207	154	182	194	64	14	907
Pre-Education	1	4	6	9			20
Pre-Clinical Lab Science	4	2	6	3	1		16

Pre-Nursing Education	34	21	16	2	1		74
Pre-Pharmacy	119	86	93	103	9		410
Pre-Physical Therapy	12	6	5	15			38
Pre-Dentistry	15	23	21	15	1		75
Pre-Occupational Therapy	1	2					3
Pre-Physician Assistant	13	7	21	33	4		78
Pre-Medical				2	12		14
Pre-Optometry	6	2	12	7			27
Pre-Podiatry			2	1			3
Pre-Veterinary Medicine	2			3			5
Undecided		1				14	15

2. *Outline of subsequent changes to the BioHealth Sciences degree and general context in the College of Science life sciences program offerings.*

Since the dissolution of the Department of General Science more than a decade ago, the General Science degree has been managed directly from the College of Science Dean's Office, and has not benefitted from an association with a group of faculty vested in the success of the degree. Fixing this problem and forging greater collaboration and cooperation among the COS life science faculties have been the main goals of discussions that have led to proposals for a broader administrative reorganization, including creation of a School of Life Sciences in the College of Science. Two new differentiated degrees are envisioned for students interested in the health and life science professions: (a) the BS in BioHealth Sciences degree, to be offered through the Department of Microbiology (which will evolve from the current General Sciences), and (b) a new degree program, BS in Molecular Biology, to be offered through the Department of Biochemistry and Biophysics (a Category I proposal is being submitted by the Department of Biochemistry and Biophysics for the creation of the Molecular Biology degree). These proposed degrees join the existing BS in Biology degree as three large differentiated life science majors that should be attractive to the majority of biologically-oriented students. Three existing degrees will continue to offer more specialized alternatives: BS in Biochemistry and Biophysics, BS in Microbiology, and BS in Zoology. The six degrees (diagrammed in Figure 1) are intended to provide a range of career-relevant alternatives for the large number of students enrolled in the life sciences in the College of Science. All will be coordinated through the new School of Life Sciences.



Immediately subsequent to approval of this current abbreviated Category I proposal, the Department of Microbiology will prepare Category II proposals to make the changes listed below. These changes are viewed as evolutionary adjustments that do not change the intent of or audience for the degree, but they should result in improved student engagement and success. It is intended that these changes will also take effect beginning Fall Term 2014.

(a) It will be proposed to offer the basic degree without the obligation to declare an Option; this is important in accurately representing the degree as offering an education in biological science relevant to the health professions, as opposed to a finishing school with the goal of entering a particular health professional school. It will serve most students better to have their degree name reflect a discipline rather than a career intention. Nevertheless, students will be advised in a manner that ensures appropriate preparation for their professional school goals (equivalent to declaring an option), and Options will be available (see below).

(b) It will be proposed to retain most of the Options currently offered in General Science, with the exception of Pre-Education and Pre-Veterinary Medicine (see Table). Pre-Veterinary Medicine is offered as an option in the Zoology major, while Pre-Education is a rarely used option that is incompatible with the learning outcomes of the degrees outlined in Figure 1 that is available in the Biology major. Decisions on the precise range of Options to be continued in this degree program will be preceded by a discussion within the the School of Life Sciences in the College of Science.

**Proposed Offering of Options Currently Available Through General Science**

<b>Current General Science degree options</b>	<b>Proposed options carried over to BioHealth Sciences degree</b>	<b>Proposed action for options not transferred to BioHealth Sciences</b>
Pre-Clinical Laboratory Science	Pre-Clinical Laboratory Science	
Pre-Dentistry	Pre-Dentistry	
Pre-Education		Available in the Biology major
Pre-Medicine	Pre-Medicine	
Pre-Nursing Education	Pre-Nursing Education	
Pre-Occupational Therapy	Pre-Occupational Therapy	
Pre-Optometry	Pre-Optometry	
Pre-Pharmacy	Pre-Pharmacy	
Pre-Physical Therapy	Pre-Physical Therapy	
Pre-Physician Assistant	Pre-Physician Assistant	
Pre-Podiatry	Pre-Podiatry	
Pre-Veterinary Medicine		Already exists in BS in Zoology

(c) In coordinated changes, it will be proposed that some Options, notably Pre-Medicine and Pre-Pharmacy, will be added to other majors listed in Figure 1, since the BS in BioHealth Sciences degree is not intended to be the sole conduit for students applying to health professional schools. These changes will maintain all the current Options offered through General Science across a variety of majors, in an expanded and more logical organization. The current College of Science advising structure, which has successfully supported students applying to health professional schools, will be maintained.

(d) Adjustments to courses available in the BioHealth Sciences major will be proposed as outlined below. The anticipated changes and rationale are to engage students, develop community around the degree program, and provide the means to assess student learning.

(i) Renaming BHS 199 (currently GS 199) as BHS 110 Orientation to BioHealth Sciences for easier recognition as a required orientation course incorporating first year experience pedagogy focused on student success and engagement. This course will be staffed by advisors and current Microbiology faculty.

(ii) Addition of a capstone course modeled on the successful Microbiology capstone course that focuses on retrieval, synthesis, and communication of information from the primary literature, and career preparation. Together with the orientation course and establishment of a BioHealth Sciences student activities club, this capstone course will add experiential and student community dimensions that are currently lacking in the General Sciences degree. This is seen as a major

benefit of associating the degree with a department. This course will be staffed by current Microbiology faculty.

(iii) Addition of a core "Mechanisms of Infectious Disease" course, adding a course in the basic health sciences that is currently lacking at OSU and that will help differentiate the BioHealth Sciences degree from the other degrees in Figure 1. This course will be staffed by current Microbiology faculty.

(iv) Collection of health, anatomy and infection-related courses (Physiology and Anatomy, General Microbiology, and the courses in i-iii above) into a core that will further differentiate the BioHealth Sciences degree from the other Life Sciences degree programs. Note that, with the exception of the two new courses, the slate of courses will be the same ones taken by current General Science students in the most popular options.

(v) Refinement of the course requirements for some of the options to meet the constantly evolving requirements for admission to specific health-related professional schools. This will match option requirements to the core sequence, and make adjustments such as the addition of Sociology 204/206 that is being considered by the OSU College of Pharmacy for inclusion in the preferred preparation courses for Pre-Pharmacy students.

### **3. *Coordination with changes in other COS life science degrees***

This proposal is one of a number of proposals aimed at reorganizing and improving the life science degree offerings in the College of Science. Reorganization of the life sciences to align three departments, Biochemistry and Biophysics, Microbiology, and Integrative Biology (formerly Zoology), into the School of Life Sciences in order to coordinate the delivery of undergraduate programs and to collaborate in research, was recently approved (1/1/2014 initiation date). Our joint deliberations have resulted in the vision depicted in Figure 1, offering three broader degrees attractive to students wanting a broad based education in the life sciences and three specialized degrees catering to groups of students wanting to specialize in a specific discipline in the life sciences. This differs from the current situation in two ways:

(a) students who would major in the current broad-based degrees, Biology and General Science, will be offered three degree choices, BioHealth Sciences, Biology, and Molecular Biology.

(b) all degrees will be embedded in a department, providing the best oversight and sense of commitment to program innovation, excellence and

community for students.

To complete goal (a), approval of the following steps is needed: (i) this current proposal, (ii) the subsequent Category II proposals to make minor adjustments to the BS in BioHealth Sciences degree (described above) that intend to enhance the student experience through engagement, and (iii) a Category I proposal for the creation of a BS in Molecular Biology degree, prepared by the Department of Biochemistry and Biophysics.

**H. Relationship of the proposed unit to programs at other institutions in the state.**

Not applicable. Since the proposed changes do not alter the scope and mission of the program, there should be no effect on relationships between OSU and other OUS institutions. Nevertheless, there is a similarly named degree, Biology-Health Sciences, offered by Oregon Institute of Technology. <http://www.oit.edu/programs/klamath-falls/health-sciences/overview>. Liaison contact was made with this program, but a response has not been received; liaison contacts were also made with Biology/Health-related programs at University of Oregon and Portland State University, again with no input beyond acknowledgement (from PSU).

**I. If the program is professionally accredited, identify the accrediting body and discuss how the proposed change may affect accreditation.** Not applicable.

**Appendices (Other attachments):**

Appendix 1: Current General Science degrees: courses taken per Option

Appendix 2: BioHealth Sciences faculty listing

Appendix 3: Prior liaison with College of Pharmacy



# Category I Proposal

## Guidelines for Addressing Accessibility of New Programs

Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 prohibits discrimination against individuals with disabilities and mandates the provision of reasonable accommodations to ensure access to programs and services. Oregon State University is committed to providing equal opportunity to higher education for academically qualified students without regard to a disability.

For questions and assistance with addressing access, please contact the Office of Disability and Access Services (737-4098) or the Office of Affirmative Action and Equal Opportunity (737-3556)

Title of Proposal:

Effective Date:

Renaming an Academic Program Proposal: BS in BioHealth Sciences Fall 2014

Department/Program:

College:

Microbiology Department

Science

- Faculty Guidelines (<http://ds.oregonstate.edu/facultystaff.aspx?Title=ResponsibilitiesFacultyStaff>)
- Information Technology Guidelines (<http://oregonstate.edu/accessibility/>)

**By signing this form, we affirm that at we have reviewed the listed documents and will apply a good faith effort to ensure accessibility in curricular design, delivery, and supporting information.**

[Signature] 2/19/2014  
Sign (Dept Chair/Head; Director) Date

Theo Dreher, Chair  
Print (Department Chair/Head; Director)

## **Appendix 2: BioHealth Sciences Faculty**

### **Current Department of Microbiology Faculty**

Patrick Ball, Ph.D., Instructor

Jerri Bartholomew, Ph.D., Professor

Tasha Biesinger, Ph.D., Instructor and Advisor

Luiz Bermudez, Ph.D., Professor

Peter Bottomley, Ph.D., Professor

Linda Bruslind, Ph.D., Senior Instructor and Head Advisor

Theo Dreher, Ph.D., Chair and Professor

Katharine Field, Ph.D., Associate Professor

Bruce Geller, Ph.D., Professor

Stephen Giovannoni, Ph.D., Professor

Kimberly Halsey, Ph.D., Assistant Professor

Michael Kent, Ph.D., Professor

Ryan Mueller, Ph.D., Assistant Professor

Walt Ream, Ph.D., Professor

Mahfuz Sarker, Ph.D., Associate Professor

Martin Schuster, Ph.D., Associate Professor

Janine Trempy, Ph.D., Professor

Rebecca Vega Thurber, Ph.D., Assistant Professor

**Dean's Office (General Science)**

Alex Aljets, Advisor

Whitney Jones, Advisor

Christopher Wheeler, Advisor

## Appendix 3 Pre-liaison with College of Pharmacy

One round of email exchanges to illustrate the detailed level of discussion between Microbiology and Pharmacy in revising the General Science major as BioHealth Sciences. The comments from Gary Delander anticipate the second step of the process, i.e., subsequent Cat 2 proposals to make adjustments to the major once this current proposal has been approved.

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**From:** <Filtz>, Theresa <[theresa.filtz@oregonstate.edu](mailto:theresa.filtz@oregonstate.edu)>  
**Date:** Friday, November 9, 2012 11:12 AM  
**To:** "DeLander, Gary" <[gary.delander@oregonstate.edu](mailto:gary.delander@oregonstate.edu)>, Theo Dreher <[theo.dreher@oregonstate.edu](mailto:theo.dreher@oregonstate.edu)>  
**Cc:** "Trempey, Janine - Email Forward" <[trempeyj@science.oregonstate.edu](mailto:trempeyj@science.oregonstate.edu)>, "Austin Haney, Angela" <[angela.austinhaney@oregonstate.edu](mailto:angela.austinhaney@oregonstate.edu)>  
**Subject:** Re: Liaison for degree name change

Hi Theo,  
I don't have anything to add to Gary's response. I will echo his thought that we do and will look favorably on students with a targeted degree (e.g., Microbiology, BB, Biology, etc) who complete the pre-pharmacy requirements in the context of those degrees; if those paths could also be clearly visible to students then that would be great.  
Thanks,  
Theresa

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**From:** Gary DeLander <[gary.delander@oregonstate.edu](mailto:gary.delander@oregonstate.edu)>  
**Date:** Thu, 8 Nov 2012 15:02:36 -0800  
**To:** "Dreher, Theo" <[theo.dreher@oregonstate.edu](mailto:theo.dreher@oregonstate.edu)>, Theresa Filtz <[theresa.filtz@oregonstate.edu](mailto:theresa.filtz@oregonstate.edu)>  
**Cc:** "Trempey, Janine - Email Forward" <[trempeyj@science.oregonstate.edu](mailto:trempeyj@science.oregonstate.edu)>, Angela Austin Haney <[angela.austinhaney@oregonstate.edu](mailto:angela.austinhaney@oregonstate.edu)>  
**Subject:** RE: Liaison for degree name change

Hi Theo,

I trimmed the email list on my reply.

This looks OK I believe. Looking again at specific courses would probably be good at some point. A few notes on specifics;

- we have now announced that beginning with students entering fall 2014 a Biochemistry sequence is a prepharmacy requirement. It can not be taken within the professional program anymore after that date. We are recommending the 450 series, but will take the 490 series.
- I think I mentioned to you that we did meet with Zoology and they are playing with restructuring their offerings to include a new, stronger 300 series course sequence; moving the 400 level sequence to majors only; and adding a 200 level for nutrition folks and others that only need that level.
- The sociology discussion has not happened yet, but yes we are looking at it.
- We are taking a broad look this year at the prepharmacy curriculum. I don't anticipate significant changes, but there are a couple things we want to learn more about. An example would be having a better understanding of our current requirement of a Cell/Molecular course and absence of a focused Genetics or Immunology courses.
- I don't think it matters, but a note that we already have and will likely continue a Pre-Pharmacy student organization

- We also run a Intro to Pharmacy course, although it may make sense to see how the content mirrors the Intro to Biohealth Sci

A more general comment; I saw that you plan to define a premedicine option in other degrees. It would be good to include a prepharmacy option in the same places. The BioHealth degree program looks fine, but we will continue to encourage students that want a more targeted degree to go ahead and do so.

Thanks for the preview, I hope this helps; Theresa may have further comment. Let me know if you have any questions.

Take care

gary

**Gary E. DeLander, Ph.D., RPh**  
Executive Associate Dean  
Chair, Department of Pharmaceutical Sciences  
College of Pharmacy  
Oregon State University  
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Phone: (541)737-5805  
Fax: (541)737-3999

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**From:** Dreher, Theo  
**Sent:** Friday, November 02, 2012 9:26 PM  
**To:** DeLander, Gary; Filtz, Theresa; Hoffman, Mark; McAlexander, Kim; Wilcox, Anthony  
**Cc:** Trempey, Janine - Email Forward  
**Subject:** Liaison for degree name change

Dear all,

We have prepared an abbreviated category 1 proposal that is the first of two steps that will lead to improved experiences for students currently in the General Science program, which as you know focusses on students thinking of a career in the health professions. A big change is to align the degree with a department so that a group of faculty will take ownership and work on better outcomes for students.

This proposal, the first step, is to change the name of General Science to BioHealth Sciences (BHS) and to place it under the administration of the Department of Microbiology.

The next step will be make some adjustments via subsequent category 2 proposals, including implementation of a Professional Skills capstone course and a student club, to improve experiences, and to create of a Molecular Biology degree administered by the Department of Biochemistry and Biophysics. We think that this degree will be attractive to some current GS students, and hope to distribute the current Biology and GS students among the Biology, BioHealth Sciences and Molecular Biology degrees.

Since you are guardians of other campus courses for students aiming for the health professions, we'd like to hear your liaison response. We'll list you in the normal liaison process, but because one of us (Theo) will be on vacation November 15 through December 5, we thought this informal liaison would help expedite the process. If there's a need to make changes, we can do that more quickly now and incorporate those for official submission.

We view the pre-pharmacy student group as the major constituency of the BioHealth Sciences degree, and we have discussed this plan with Gary and Theresa quite a bit. Mark, Kim, Tony: if you'd like a verbal explanation of our view of the changes to improve the experiences of GS students, let us know.

**Budget Narrative**  
**OSU Internal Budget Form**  
**Program: BS in BioHealth Sciences**  
**Budget Period: From FY 2015 to FY 2018**

**PERSONNEL**

**Faculty, fixed-term:**

**Year 1:** \$122,892 for three full-time advisors (A. Aljets, C. Wheeler, A. Wolf).  
Funding to be transferred from the College of Science to Microbiology  
**Year 2+:** Funding remains in Microbiology

**Support Staff:**

**Year 1:** \$33,432 for one full-time Office Specialist 1 Administrative Asst (B. Hommel-Johnson).  
Funding to be transferred from the College of Science to Microbiology  
**Year 2+:** Funding remains in Microbiology

**OPE:**

**Year 1:** \$109,476 for four positions mentioned above  
Funding to be transferred from the College of Science to Microbiology  
**Year 2+:** Funding remains in Microbiology

*See attached MOA from Dean Pantula, College of Science*

**OTHER EXPENSES**

**Services & Supplies:**

**Year 1:** \$5,000 to cover stationery, marketing, etc., associated with the BHS major.  
Funding to be paid by the College of Science

**Facilities Renovation:**

**Year 1:** \$20,000 to renovate the existing Microbiology office suite on the second floor of Nash Hall in order to provide office space for the three advisors and a reception area.  
\$15,000 to be paid by the College of Science and up to \$5,000 by Microbiology

*See attached MOA from Dean Pantula, College of Science*

*Sandy G. Pantula*  
2/19/14

# OSU Internal Budget Outline Form

## Estimated Costs and Sources of Funds for Proposed Program

Total new resources allocated to the Proposed Program, if any.  
If no change in resources is required, the budgetary impact should be reported as zero.

PROGRAM TITLE:    BS in BioHealth Sciences

BUDGET PERIOD:       From FY       2015                               to FY       2018

	<b>RECURRING</b>			
	Fiscal Year 1	Fiscal Year 2	Fiscal Year 3	Fiscal Year 4
<b>Personnel</b>				
Faculty, Tenured/Tenure-track		-	-	-
Faculty, fixed-term	122,892	125,350	127,857	130,414
<b>Sub-total, Faculty</b>	<b>122,892</b>	<b>125,350</b>	<b>127,857</b>	<b>130,414</b>
Graduate Assistants	-	-	-	-
Support Staff	33,432	34,101	34,783	35,479
Fellowship/Scholarship	-	-	-	-
OPE	109,476	114,950	120,697	126,732
<b>Personnel Subtotal</b>	<b>265,800</b>	<b>274,401</b>	<b>283,337</b>	<b>292,625</b>
<b>Other Expenses</b>				
Library, Printed				
Library, Electronic				
Services & Supplies	-	-	-	-
Capital Equipment				
Facilities Renovation				
<b>Other Expenses Subtotal</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total Cost of Program</b>				
	<b>265,800</b>	<b>274,401</b>	<b>283,337</b>	<b>292,625</b>
<b>Resources</b>				
Current Budget, unit				
Tuition				
Fees/Sales				
Other, describe: College of Science	265,800	274,401	283,337	292,625
Foundation Endowment				
Provost, tenure-track 2 hires				
<b>Total Resources</b>	<b>265,800</b>	<b>274,401</b>	<b>283,337</b>	<b>292,625</b>

See budget narrative on separate sheet.

# OSU Internal Budget Outline Form

## Estimated Costs and Sources of Funds for Proposed Program

Total new resources allocated to the Proposed Program, if any.  
If no change in resources is required, the budgetary impact should be reported as zero.

PROGRAM TITLE: BS in BioHealth Sciences

BUDGET PERIOD: From FY 2015 to FY 2018

	ONE-TIME			
	Fiscal Year 1	Fiscal Year 2	Fiscal Year 3	Fiscal Year 4
<b>Personnel</b>				
Faculty, Tenured/Tenure-track	-	-	-	-
Faculty, fixed-term				
<b>Sub-total, Faculty</b>	-	-	-	-
Graduate Assistants				
Support Staff				
Fellowship/Scholarship				
OPE				
<b>Personnel Subtotal</b>	-	-	-	-
<b>Other Expenses</b>				
Library, Printed				
Library, Electronic				
Services & Supplies	5,000			
Capital Equipment				
Facilities Renovation	20,000			
<b>Other Expenses Subtotal</b>	25,000	-	-	-
<b>Total Cost of Program</b>				
	<b>25,000</b>	-	-	-
<b>Resources</b>				
Current Budget, unit	5,000	-	-	-
Tuition				
Fees/Sales				
Other, describe: College of Science	20,000			
<b>Total Resources</b>	<b>25,000</b>	-	-	-

See budget narrative on separate sheet.

# OSU Internal Budget Outline Form

## Estimated Costs and Sources of Funds for Proposed Program

Total new resources allocated to the Proposed Program, if any.  
If no change in resources is required, the budgetary impact should be reported as zero.

PROGRAM TITLE: BS in BioHealth Sciences

BUDGET PERIOD: From FY 2015 to FY 2018

<b>SUMMARY</b>				
	Fiscal Year 1	Fiscal Year 2	Fiscal Year 3	Fiscal Year 4
<b>Personnel</b>				
Faculty, Tenured/Tenure-track	-	-	-	-
Faculty, fixed-term	122,892	125,350	127,857	130,414
<b>Sub-total, Faculty</b>	<b>122,892</b>	<b>125,350</b>	<b>127,857</b>	<b>130,414</b>
Graduate Assistants	-	-	-	-
Support Staff	33,432	34,101	34,783	35,479
Fellowship/Scholarship	-	-	-	-
OPE	109,476	114,950	120,697	126,732
<b>Personnel Subtotal</b>	<b>265,800</b>	<b>274,401</b>	<b>283,337</b>	<b>292,625</b>
<b>Other Expenses</b>				
Library, Printed	-	-	-	-
Library, Electronic	-	-	-	-
Services & Supplies	5,000	-	-	-
Capital Equipment	-	-	-	-
Facilities Renovation	20,000	-	-	-
<b>Other Expenses Subtotal</b>	<b>25,000</b>	<b>-</b>	<b>-</b>	<b>-</b>
<hr/>				
<b>Total Cost of Program</b>	<b>290,800</b>	<b>274,401</b>	<b>283,337</b>	<b>292,625</b>
<hr/>				
<b>Resources</b>				
Current Budget, unit	5,000	-	-	-
Tuition	-	-	-	-
Fees/Sales	-	-	-	-
Other, describe: College of Science	285,800	274,401	283,337	292,625
Foundation Endowment	-	-	-	-
Provost, tenure-track 2 hires	-	-	-	-
	-	-	-	-
<b>Total Resources</b>	<b>290,800</b>	<b>274,401</b>	<b>283,337</b>	<b>292,625</b>

See budget narrative on separate sheet.

Budget Outline Form  
Estimated Costs and Sources of Funds for Proposed Program

Institution: Oregon State University  
Program: BS in BioHealth Sciences  
Academic Year: 2014-15

Indicate the years: X First Second  
Third Fourth

	Column A* From Current Budgetary Unit	Column B Institutional reallocation from Other Budgetary Unit	Column C From Special State Appropriate Request	Column D From Federal Funds and Other Grants	Column E From Fees, Sales and Other Income	Column F LINE ITEM TOTAL
<b>PERSONNEL</b>						
Faculty (include FTE)*		122,892	3 at 1.0 FTE			122,892
Graduate Assistants (include FTE)		33,432	1 at 1.0 FTE			33,432
Support Staff (include FTE)**		109,476				109,476
Fellowships/Scholarships (Tuition)		-				-
OPE		265,800				265,800
Nonrecurring						
Personnel Subtotal						
<b>OTHER RESOURCES</b>						
Library/printed		-				-
Library/electronic		-				-
Supplies and Services***		5,000				5,000
Equipment		-				-
Other Expenses		-				-
Other Resources Subtotal		5,000				5,000
<b>PHYSICAL FACILITIES</b>						
Construction		-				-
Major Renovation****		5,000				5,000
Other Expenses		-				-
Physical Facilities Subtotal		5,000				5,000
<b>GRAND TOTAL</b>		<u>5,000</u>				<u>5,000</u>

\*three fixed term advisors at 1.0 FTE, funding to be transferred from College of Science to Microbiology

\*\* one OS1 support staff, funding to be transferred from College of Science to Microbiology

\*\*\* supplies and service of \$5,000 in year one to cover supplies and services, marketing, etc., funding to be transferred from College of Science to Microbiology

\*\*\*\* renovation of office suite to provide space for three advisors and a reception area (to be funded \$15,000 by College of Science and up to \$5,000 by Microbiology)

Budget Outline Form  
Estimated Costs and Sources of Funds for Proposed Program

Institution: Oregon State University  
 Program: BS in BioHealth Sciences  
 Academic Year: 2014-15

Indicate the years: \_\_\_\_\_ First \_\_\_\_\_ Second  
 \_\_\_\_\_ Third \_\_\_\_\_ Fourth

	Column A*	Column B	Column C	Column D	Column E	Column F
	From Current Budgetary Unit	Institutional reallocation from Other Budgetary Unit	From Special State Appropriate Request	From Federal Funds and Other Grants	From Fees, Sales and Other Income	LINE ITEM TOTAL
<b>PERSONNEL</b>						
Faculty (include FTE)*	125,350					125,350
Graduate Assistants (include FTE)						-
Support Staff (include FTE)**	34,101					34,101
Fellowships/Scholarships (Tuition)						-
OPE	114,950					114,950
Nonrecurring	-					-
Personnel Subtotal	274,401					274,401
<b>OTHER RESOURCES</b>						
Library/printed	-					-
Library/electronic	-					-
Supplies and Services	-					-
Equipment	-					-
Other Expenses	-					-
Other Resources Subtotal	-					-
<b>PHYSICAL FACILITIES</b>						
Construction						-
Major Renovation						-
Other Expenses						-
Physical Facilities Subtotal	-					-
<b>GRAND TOTAL</b>	274,401					274,401

\*three fixed term advisors at 1.0 FTE  
 \*\* one OS1 support staff

Budget Outline Form  
Estimated Costs and Sources of Funds for Proposed Program

Institution: Oregon State University  
Program: BS in BioHealth Sciences  
Academic Year: 2014-15

Indicate the years: \_\_\_\_\_ First \_\_\_\_\_ Second  
                                  x \_\_\_\_\_ Third \_\_\_\_\_ Fourth

	Column A*	Column B	Column C	Column D	Column E	Column F
	From Current Budgetary Unit	Institutional reallocation from Other Budgetary Unit	From Special State Appropriate Request	From Federal Funds and Other Grants	From Fees, Sales and Other Income	LINE ITEM TOTAL
<b>PERSONNEL</b>						
Faculty (include FTE)*	127,857					127,857
Graduate Assistants (include FTE)						-
Support Staff (include FTE)**	34,783					34,783
Fellowships/Scholarships (Tuition)						-
OPE	120,697					120,697
Nonrecurring	-					-
Personnel Subtotal	283,337					283,337
<b>OTHER RESOURCES</b>						
Library/printed	-					-
Library/electronic	-					-
Supplies and Services	-					-
Equipment	-					-
Other Expenses	-					-
Other Resources Subtotal	-					-
<b>PHYSICAL FACILITIES</b>						
Construction						-
Major Renovation						-
Other Expenses						-
Physical Facilities Subtotal	-					-
<b>GRAND TOTAL</b>	283,337					283,337

\*three fixed term advisors at 1.0 FTE  
\*\* one OS1 support staff

Budget Outline Form  
Estimated Costs and Sources of Funds for Proposed Program

Institution: Oregon State University  
Program: BS in BioHealth Sciences  
Academic Year: 2014-15

Indicate the years:      First      Second  
   Third      x      Fourth

	Column A*	Column B	Column C	Column D	Column E	Column F
	From Current Budgetary Unit	Institutional reallocation from Other Budgetary Unit	From Special State Appropriate Request	From Federal Funds and Other Grants	From Fees, Sales and Other Income	LINE ITEM TOTAL
<b>PERSONNEL</b>						
Faculty (include FTE)*	130,414					130,414
Graduate Assistants (include FTE)						-
Support Staff (include FTE)**	35,479					35,479
Fellowships/Scholarships (Tuition)						-
OPE	126,732					126,732
Nonrecurring	-					-
Personnel Subtotal	292,625					292,625
<b>OTHER RESOURCES</b>						
Library/printed	-					-
Library/electronic	-					-
Supplies and Services	-					-
Equipment	-					-
Other Expenses	-					-
Other Resources Subtotal	-					-
<b>PHYSICAL FACILITIES</b>						
Construction						-
Major Renovation						-
Other Expenses						-
Physical Facilities Subtotal	-					-
<b>GRAND TOTAL</b>	292,625					292,625

\*three fixed term advisors at 1.0 FTE  
\*\* one OS1 support staff



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## Memorandum of Agreement

### **Commitment of financial resources for the proposed BioHealth Sciences major to be administered by the Department of Microbiology**

This letter commits the College of Science to providing appropriate financial support to ensure the success of the BioHealth Sciences (BHS) major, the new name proposed for the General Science major, after its administrative transfer to the Department of Microbiology.

Recent curriculum discussions surrounding life sciences instruction in the College of Science have resulted in the creation of the School of Life Sciences and in the adoption of guiding principles for delivering life science majors. A primary principle has been to closely associate majors with departments, thereby connecting them with a group of faculty committed to the student experience and continual innovation. Likewise, advising should be provided from within the relevant department.

In support of the transfer of the renamed General Science major from its current administrative location in the Dean's office to the Department of Microbiology, the College of Science commits to the following:

1. Transfer of budget and administrative oversight for the three General Science advisors (3.0 FTE- currently, Alex Aljets, Christopher Wheeler, and Ariella Wolf) to the Department of Microbiology to provide advising for the BHS major. Note that 0.1 FTE of each advisor's position description will be dedicated to college-wide advising and recruiting functions overseen by the COS Head Advisor.
2. Provision of 1.0 FTE OS1 (currently, Bonnie Johnson) to serve as support staff for managing the BHS major, scheduling advising appointments, etc. by transfer of budget and administrative oversight from the Dean's office to the Department of Microbiology.
3. Addition of support to the Department of Microbiology budget to cover supplies and services, stationery, marketing, etc., associated with the BHS major: \$5,000 in year 1.
4. College of Science to cover the renovation costs for the three advisor offices and the Department of Microbiology to provide the furniture for the advisors.

The dollar amounts associated with these commitments are further tabulated in the budget sheets accompanying this proposal. These commitments will commence on approval of the proposal by the Faculty Senate.

*Sarthy G. Pantula*

2/12/14



Capital Planning & Development | Design & Development  
3015 SW Western Blvd. | Corvallis, Oregon 97333  
Phone 541.737.3014 | [jean.duffett@oregonstate.edu](mailto:jean.duffett@oregonstate.edu)

March 3, 2014

Dear Theo Dreher,

We appreciate the opportunity to review the OSU proposal to change the name of the General Sciences Program to BioHealth Sciences and place it under the administration of the Department of Microbiology. Given that the changes to space to accommodate advisors in Nash Hall are already addressed and no additional space resources are required, Capital Planning and Development supports this proposal.

Sincerely,

A handwritten signature in black ink that reads "Jean Duffett". The signature is written in a cursive style with a long horizontal line extending from the end of the name.

Jean Duffett, AIA  
Architectural Space Planner

Cc: Sastry Pantula, Dean of Science  
Kirk Pawlowski, Executive Director of Capital Planning and Development

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January 14, 2013

To: Theo Dreher

RE: Abbreviated CAT I for a BioHealth Science degree

FROM: Stella Coakley on behalf of the College of Agricultural Sciences

This document provides a synthesis of comments provided by the College of Agricultural Sciences (CAS) curriculum committee and dean's office. The Abbreviated CAT I is a two-part proposal to 1) change the General Science Degree to a BioHealth Science Degree and 2) transfer administration of the degree to the Department of Microbiology.

Please note RE: page 10, number 3: "Coordination with changes in other COS life science degrees", that the College of Agricultural Sciences, in its response to the Category I proposal to create a School of Life Sciences, is on the record of not supporting the placement of the biology degree within the department of zoology. CAS has requested that administration of biology be placed at the School of Life Sciences level to ensure it remains as a jointly delivered program which has been primarily delivered by Botany and Plant Pathology and Zoology. Given the comments received from CAS faculty on the BioHealth proposal, we wonder if placing that degree also at the School Level would seem to be another and perhaps more efficient way to administer the BioHealth Science degree. At the school level, there could be advantages with respect to deployment of faculty resources and convenience for students, i.e. to have access to the broader base of biological sciences. Given that a large number of the faculty at OSU in the biomedical sciences are in pharmacy and public health and human sciences, this undergraduate area of emphasis would be well served by a program based beyond the College of Science or at the least, at a School of Life Sciences level where other units could more easily partner (not unlike the joint delivery of the biology program by zoology and botany and plant pathology faculty). We are aware of a proposal to create a new major in molecular and cellular biology to be administered by biochemistry and biophysics. That degree also would benefit from the broader base of biological sciences faculty than are in that unit. Was a "school-level" administration of these programs considered and what were the perceived advantages and disadvantages?

We are supportive of the change in name of the General Science Degree to that of a BioHealth Science degree because it appears to better fit the vast majority of the students.

Questions we have included:

1. Last year, we reviewed a Category 1 for a new MS and PhD program – Comparative Health Sciences. How does the proposed reconfigured undergraduate program fit with that graduate program?

2. It seems to make sense to delete the education option. Will the College of Education be addressing those undergraduates who are considering various options in science education? With the move of the Science and Math Program from Science to Education, that may be unclear to undergraduates.

3. Greater emphasis on the health sciences puts more pressure on the OSU Libraries and its collection. That strain on resources probably will not be addressed separately as this is an abbreviated Category 1.

Given the large number of General Science students and the accompanying administrative challenges, we acknowledge the willingness of Microbiology to take over the program. However, we wonder about the justification for doing so. Part 2 of the proposal should provide a clearer justification for how the current administrative structure of the General Science major has failed the students and how the new structure will avoid those pitfalls. As stated in the proposal, the current advising structure is successful and will not be changed; and there will not be any changes to course offerings or delivery, program or admission requirements. In other words, no changes are proposed that directly affect students. As articulated by this Category I proposal, the change is to help achieve the goals to “educate students in general biology with an emphasis on human health” and “connecting the degree to a group of faculty committed to the success and relevance of the program and its students”. How will administration of the BioHealth Science Degree through the Department of Microbiology achieve these goals?

With respect to the goal to “educate students in general biology”, we note the statement in the proposal that “Currently, all courses taken by General Science majors (except Orientation GS 199) are provided by faculty from other programs, and that will remain the case if this proposal is approved”. With respect to the emphasis on human health, while we acknowledge that Microbiology has an emphasis on infectious diseases, we also note that human health is much broader than just infectious diseases. Many of those additional dimensions of human health are covered by faculty in other departments (e.g. pharmacy, exercise and sports medicine, biochemistry and biophysics, nutrition, environmental and molecular toxicology). How will the proposed administrative structure facilitate involvement of faculty that study infectious diseases as well as human health and that are distributed across multiple departments and colleges?

The proposed committee to provide guidance on curricular decisions and assessment of the program does not include faculty members of other departments with interest in the success of a BioHealth major. Adding faculty members with BioHealth interests who are from outside Microbiology would ensure a fuller awareness of the needs and/or resources for students pursuing a degree in BioHealth (see for example the e-mail conversation between Microbiology and Pharmacy as an example; Microbiology was not aware of changes implemented by Pharmacy).

The faculty members in the Department of Microbiology appear to be already fully subscribed in providing core microbiology courses for general biology and other majors, including their own. Microbiology is a joint department with the College of Agricultural Sciences and several of the faculty listed appointments shared with other units, including Veterinary Medicine. Is there the capacity to add this additional undergraduate advising supervision without negatively impacting the other teaching, research, and

advising responsibility of this unit? The two proposed committees and club (Pharmacy already has one) appear to be in addition to current faculty responsibilities. Perhaps the budget being transferred will cover the additional faculty involvement that is envisioned but we are concerned on that point because our knowledge of the faculty in microbiology suggests they are already fully subscribed.

In summary, we see considerable value in renaming the General Science major to a BioHealth major. The new name is more consistent with the goals of most of the current general science majors and has the potential to improve the understanding and visibility of the degree by students. However, we have raised some issues with regard to housing the new degree in a single department when BioHealth is so broadly distributed across campus. The issues are not so much with where the program is administered as how. What deliberate measures does the new administration put in place to ensure that students are exposed to the full breadth of human health studies at OSU? As proposed above, placing the degree at the School of Life Sciences level (along with the other "general" biological sciences degrees) could provide improved visibility for students.

We suggest that a School of Life Sciences (within Science) with opportunity for faculty from across campus to participate in the delivery of core curriculum and the advising of undergraduates would be in best interest of the students at Oregon State University. We are concerned that the current plans (which are being delivered in separate CAT I pieces) will further fragment the biological sciences and may even increase the amount of administration to provide overall coordination. We strongly encourage the College of Science and the associated biological sciences units to revisit their proposals and to consider placing all of the biological sciences degrees at the School of Life Sciences level. Departments should both have a responsible to and be credited for their contributions to the majors described here and in the one proposing the creation of a school of life sciences in which the biology degree be administered by zoology.