

BS in BioHealth Sciences

Proposal Summary

<https://secure.oregonstate.edu/ap/cps/proposals/view/85460>

The BS in BioHealth Sciences proposal consists of three parts. The first renames the existing BS in General Science degree program to the BS in BioHealth Sciences degree program. The second moves the new BS in BioHealth Sciences, and ten of the twelve options, from a Director position in the Dean's Office of the College of Science to the Chair of the Department of Microbiology in the School of Life Sciences. The third terminates the BS in General Science degree program. Two options are being terminated; the Pre-Education Option and Pre-Veterinary Medicine Option. Under a separate proposal, a new Pre-Veterinary Medicine Option will be created under the BS in Zoology major.

The BS in BioHealth Sciences degree program is designed to accommodate pre-health professional school requirements, while providing a broad-based science and liberal arts education. The General Science name did not align with these degree program outcomes, thus necessitating the name and the administrative changes. The BioHealth Sciences degree title reflects OSU's strong emphasis on the academic preparation of pre-health professionals within a broader context of a biological science degree. The ten pre-health options of the BS in BioHealth Sciences degree program include: Pre-Clinical Laboratory Science, Pre-Dentistry, Pre-Medicine, Pre-Nursing Education, Pre-Occupational Therapy, Pre-Optometry, Pre-Pharmacy, Pre-Physical Therapy, Pre-Physician Assistant, and Pre-Podiatry.

Source: Office of Academic Programs, Assessment, and Accreditation
\glb (7-7-14)



Institution: **Oregon State University**

College/School: **College of Science/School of Life Sciences**

Department: **Department of Microbiology**

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

CPS Tracking # 85460

<https://secure.oregonstate.edu/ap/cps/proposals/view/85460>

CIP # 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

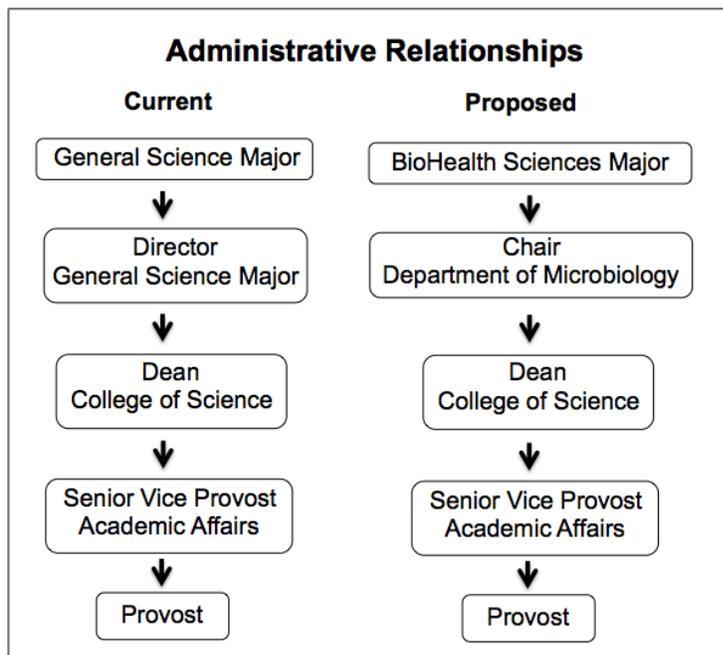
(Renamed from: **BS in General Science; CIP # 301801**)

- 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
 - Theo Dreher, Department of Microbiology**
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**

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).

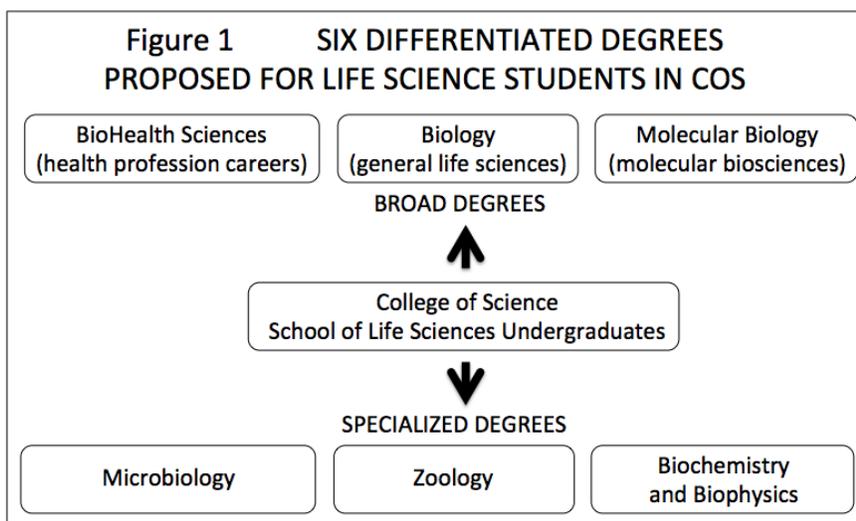
1. *The current BS in General Science degree.*

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.

General Science Student Numbers, October 2013							
	Freshman	Sophomore	Junior	Senior	Post Bac	INTO	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		
Current General Science degree options	Proposed options carried over to BioHealth Sciences degree	Proposed action for options not transferred to BioHealth Sciences
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

Letters of Support:

N/A: Although liaison outside OSU is not required for an Abbreviated Category 1 Proposal, the proposal was sent in early December 2013 to representatives of Biology/Health programs at OIT, UofO and PSU. Beyond acknowledgement from PSU, no liaison response has been obtained.

Liaisons

Kevin Ahern

Request: *None*

Response: *No response received from liaison*

Biochemistry & Biophysics input provided by Gary Merrill

Gary Merrill

Request: *None*

Response: *None* [

Congratulations to your team. The proposal does a good job of articulating why changing the name of the General Science degree to Biohealth Sciences is appropriate (it describes what the 800+ students in the major are studying) and why shifting administrative control of the degree from the dean's office to the Microbiology department makes sense (students will benefit from the greater faculty involvement in the stewardship and success of the degree). The proposal accurately describes both the big picture and the details of the plan that the dean and life science chairs (Remcho, Weis, Mason, you, and I) arrived at over several dozen months of meetings.

Stella Coakley

Request: *None*

Response: [CAS-Stella BioHealthCAScomments.pdf](#) (58.43 Kb added Apr 02, 2014 9:36 am)

Claire Colvin

Request: *None*

Response: *None* [

As the administrator of advising services for the College of Science and an advisor for General Science, I view this proposal as a very positive move for both the program and the students in it. From a nomenclature standpoint, the name change is greatly needed. General Science is not an accurate description of what these students intend to do with their degrees. Students who pursue General Science options are focused on health careers and attaining the scientific training needed for success in those rigorous professional programs. This new name would be a more accurate reflection of the student's intention and goals, as well as their training in health related life sciences. For many years General Science has been located in the Dean's Office in the College of Science. While it has been conveniently located for students, it has created a disconnect for both the students and the advisors. It is a challenge for advisors to be detached from the faculty and advise on curriculum that does not sit in an academic department. Being located in

Liaisons

an academic unit will give advisors access to faculty. This relationship will only benefit our students. As professional advisors, who are primarily focused on the requirements for professional schools, it will be incredibly useful to have the insights of science faculty to give us greater understanding of the curriculum in the degree program. The proximity to faculty will also facilitate the referral of students to faculty members who teach courses or conduct research that may be of interest to our students. For students, having an academic departmental home gives them an identity within the college and a set of faculty to engage with who are familiar with the rigors of the degree. The proposed enhancements to the co-curricular experience of students in General Science is long overdue. It will create cohesive purpose and structure to activities that have been done separately in the past reducing redundancies and creating a unified experience for all BioHealth Science students. I fully support this proposal. Best, Claire

Gary Delander

Request: *None*

Response: *None*

Hi Theo, I looked through the documents that have been submitted in support of changes that will result in the establishment of a new BioHealth Sciences degree. We appreciate the time you have taken to meet with us during the process and note that you have been responsive to those conversations. I have copied Theresa Filtz, our Curriculum committee chair, Angela Austin Haney, our head advisor and Director of Student Services, and Dean Zabriskie. There may be additional comment from these individuals, but I found that your proposal is sound and should serve the needs of the College of Pharmacy and candidates for the professional program well. Take care gary

Theresa Filtz

Request: *None*

Response: *None*

Hi Theo, I don't have any additional comments about the proposal. Thanks for all of your work to accommodate the needs of the pre-pharmacy students. Theresa

Robert Mason

Request: *None*

Response: *None*

Hi Theo, Here's the liaison from Biology: The Biology Program has reviewed the proposal and is highly supportive of both the name change for General Science and the move to the Microbiology Department. This is a revitalization that has been a long time coming and one that will greatly benefit the students interested in health science professions. Bob

Kim McAlexander

Request: *None*

Response: *No response received from liaison*

PHHS response covered by Wilcox and Hoffman

Brock McLeod

Request: *None*

Response: *No response received from liaison*

Biology Program input provided by Bob Mason

Virginia Weis

Request: *None*

Response: *None*

Theo, As a fellow unit within the proposed School of Life Sciences, Zoology supports the proposed name change and re-alignment of the General Science major. This change is a critical component to the College of Science and proposed School of Life Science's plan to restructure the Life Sciences undergraduate degrees to better serve the large and diverse student populations in these degrees. Regards, Virginia

Tony Wilcox

Request: *None*

Response: *None*

Thanks for the opportunity to review this proposal and for the meeting yesterday to discuss it. I find this to be a sound proposal and support the name and location change for the General Science degree program. As we discussed, the BioHealth Sciences name for the major is fitting for the learning outcomes and career preparation the degree provides. The name also has the potential to create some confusion for prospective majors with its similarity to names for academic programs and units in the College of Public Health and Human Sciences, so all of us should do our best to clearly communicate the opportunities in both colleges for degrees to prepare students for careers in medicine and the allied health fields.

Natalie Dollar

Request: *None*

Response: *None*

Dr. Dreher, The materials presented in support of changing the name of General Science to Biohealth Sciences and administrative control of the degree program to Microbiology offer compelling evidence of the need for these two changes. As the OSU-Cascades liaison for this Abbreviated Cat 1 I am pleased to support this proposal which strengthens OSU's commitment to students in the ever-emerging biological sciences. Natalie Dollar Associate Dean Arts & Sciences OSU-Cascades

Mark Hoffman

Request: *None*

Response: *None*

Theo: I have reviewed this proposal and am supportive of the work being done to support this large group of students. The one area of concern that I have relates to the name of the degree "BioHealth Science". Since there is a lot of similarity with the name of one of the schools (Biological and Population Health Sciences) in the

Liaisons

College of Public Health and Human Sciences, we collectively will need to work with all of our constituents to decrease any potential confusion. Responding comment from Theo Dreher: The only name in PHHS close to BioHealth Sciences is the school name Biological and Population Health Sciences, with no name similarity among degrees; nevertheless, recent COS-PHHS discussions have set up a collaborative dialog that will help to direct students via advising to their most suitable major, whether in COS or PHHS.

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

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

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

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

See budget narrative on separate sheet.

Summary

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 Third
Second 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
PERSONNEL						
Faculty (include FTE)*		122,892	3 at 1.0 FTE			122,892
Graduate Assistants (include FTE)						-
Support Staff (include FTE)**		33,432	1 at 1.0 FTE			33,432
Fellowships/Scholarships (Tuition)						-
OPE		109,476				109,476
Nonrecurring		-				-
Personnel Subtotal		<u>265,800</u>				<u>265,800</u>
OTHER RESOURCES						
Library/printed		-				-
Library/electronic		-				-
Supplies and Services***		5,000				5,000
Equipment		-				-
Other Expenses		-				-
Other Resources Subtotal		<u>5,000</u>				<u>5,000</u>
PHYSICAL FACILITIES						
Construction		-				-
Major Renovation****		5,000				20,000
Other Expenses		-				-
Physical Facilities Subtotal		<u>5,000</u>				<u>20,000</u>
GRAND TOTAL		<u><u>5,000</u></u>				<u><u>290,800</u></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 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
PERSONNEL						
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
OTHER RESOURCES						
Library/printed	-					-
Library/electronic	-					-
Supplies and Services	-					-
Equipment	-					-
Other Expenses	-					-
Other Resources Subtotal	-					-
PHYSICAL FACILITIES						
Construction						-
Major Renovation						-
Other Expenses						-
Physical Facilities Subtotal	-					-
GRAND TOTAL	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
PERSONNEL						
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
OTHER RESOURCES						
Library/printed	-					-
Library/electronic	-					-
Supplies and Services	-					-
Equipment	-					-
Other Expenses	-					-
Other Resources Subtotal	-					-
PHYSICAL FACILITIES						
Construction						-
Major Renovation						-
Other Expenses						-
Physical Facilities Subtotal	-					-
GRAND TOTAL	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
PERSONNEL						
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
OTHER RESOURCES						
Library/printed	-					-
Library/electronic	-					-
Supplies and Services	-					-
Equipment	-					-
Other Expenses	-					-
Other Resources Subtotal	-					-
PHYSICAL FACILITIES						
Construction						-
Major Renovation						-
Other Expenses						-
Physical Facilities Subtotal	-					-
GRAND TOTAL	292,625					292,625

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

**Oregon State University
New Academic Degree Program Proposals**

Proposal	Purpose	Academic Unit(s)
<i>Proposals Currently Under Review</i>		
MS, MEng, PhD in Robotics	New: Graduate Degree Program	School of Mechanical, Industrial, and Manufacturing Engineering; College of Engineering
BA, BS in Religious Studies	New: Undergraduate Degree Program	School of History, Philosophy, and Religion; College of Liberal Arts
PhD in Women, Gender, and Sexuality Studies	New: Graduate Degree Program	School of Language, Culture, and Society; College of Liberal Arts
MA in Environmental Arts and Humanities	New: Graduate Degree Program	College of Liberal Arts
BS in Hospitality Management	New: Undergraduate Degree Program (Offered Exclusively at OSU-Cascades)	College of Business and OSU-Cascades Branch Campus
MA, MS in Communication	New: Graduate Degree Program	School of Arts and Communication; College of Liberal Arts
<i>Proposals in Preparation for 2014-15 Submission</i>		
Bachelor of Music	New: Undergraduate Degree Program	School of Arts and Communication; College of Liberal Arts
MS in Kinesiology	New: Graduate Degree Program	School of Biological and Population Health Sciences; College of Public Health and Human Sciences
BA in World Languages and Cultures	New: Undergraduate Degree Program; Undergraduate Options in French, German, and Spanish	School of Language, Culture, and Society; College of Liberal Arts

New Academic Programs Approved 2011-2014

Division of Arts and Sciences <ul style="list-style-type: none"> • PhD.in Public Policy • MFA in Creative Writing (low residency programs at OSU Cascades) • BA/BS in Social Science (offered at OSU Cascades) 	Division of Business and Engineering <ul style="list-style-type: none"> • BFA in Graphic Design • BS in Accountancy (offered at OSU Cascades) • MS, MEng, and PhD in Environmental Engineering • BA and BS in Innovation Management
Division of Earth Sciences <ul style="list-style-type: none"> • BS in Sustainability (Double Degree) 	Division of Health Sciences <ul style="list-style-type: none"> • MS and PhD in Comparative Health Sciences