



Program Review Self-Study Template

Academic unit: Bioengineering

College: Engineering - Interdisciplinary

Date of last review

Date of last accreditation report (if relevant)

List all degrees described in this report (add lines as necessary)

Degree:

CIP code:

\*To look up, go to: Classification of Instructional Programs Website <http://nces.ed.gov/ipeds/cipcode/Default.aspx?v=55>

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**1. Departmental purpose and relationship to the University mission (refer to instructions in the WSU Program Review document for more information on completing this section).**

a. University Mission

[REDACTED]

setting. Through teaching, scholarship and public service the University seeks to equip both students and the larger community with the educational and cultural tools they need to thrive in a complex world, and

[REDACTED]

curriculum, graduates will have the ability to solve problems and design solutions that link engineering with physical and biological sciences, and pursue professional opportunities related to this ability. Thus, the River engineering program has three program educational objectives. Graduates of the WSU

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2. Describe the quality of the program as assessed by the strengths, productivity, and qualifications of the faculty in terms of SCH, majors, graduates and scholarly productivity (refer to instructions in the WSU Program Review document for more information on completing this section). Complete a separate table for each program if appropriate.

Last 3 Years	UG Program - BS (No FTE/SCH assigned to program)		Instructional FTE (#):	Total	Total	Total
	Tenure/Tenure	Tenure/Tenure				
	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	19	N/A
	N/A	N/A	N/A	N/A	36	N/A
				N/A	N/A	N/A
				N/A	N/A	N/A
				N/A	N/A	N/A
	5	8	2		2	3
	4		3			720,000



### 3. Academic Program: Analyze the quality of the program as assessed by its curriculum and impact on students.

Complete this section for each program (if more than one). Attach updated program assessment plan (if applicable).

			22.66
19	29.5		22.72
36	26.6		22.81

N/A

appendix (refer to instructions in the WSU Program Review document for more information).

Last 3 Years	Total Majors - From fall semester	a For undergraduate programs, compare ACT scores of the majors with the University as a whole	
		Majors	ACT – Fall Semester (mean for those reporting) All University Students - FT
Year 1 →			
Year 2 →			
Year 3 →			

KBOR data minima for UG programs: ACT  $\leq$  20 will trigger program

b For graduate programs, compare graduate GPAs of the majors with University graduate GPAs \*

Learning Outcomes (most programs will have multiple outcomes)	Assessment Tool (e.g., portfolios, rubrics, exams)	Target/Criteria (desired program level achievement)	Results	Analysis
Please see the table below for Learning Outcomes for Bioengineering Program	Assessment tools will consist of certain exam and quiz questions, student surveys, rubrics for presentations, project reports and teamwork.	For each learning outcome, we have targeted a mean score of 70% on any evaluation method as the minimum level to indicate achievement of the learning outcome.	See below	See below
<del>The Bioengineering program has learning outcomes for all Bioengineering courses that have been developed to date</del>				

For Attribution only BioE 462 Intro to Biofluids has been assessed for learning outcomes. Other courses will be

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

76.1%

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

evaluated for the first time during the Spring 2012 and Fall 2012 semesters / i.e. BioE 452 Biomechanics BioE 477 Intro

[REDACTED]

[REDACTED]

65.1%

[REDACTED]

[REDACTED]





scholarship, inductions into honor organizations, publications, special awards, academic scholarships

[REDACTED]

student recruitment and retention).

Over its brief history, the Department has been successful in its focus with a high level

[REDACTED]

4. Analyze the student need and employer demand for the program. Complete for each program if appropriate.

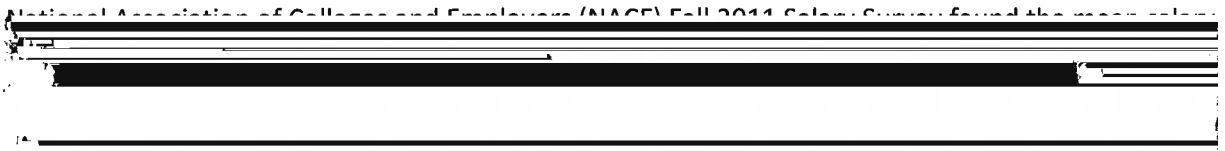
0 0 0 1 0 0 3 0 0  
1 5 1 0 9 0

\* Make no adjustments over a year in the WCLD or any other document from information available at:

<http://www.bls.gov/oco/>

\*\* Go to the U.S. Bureau of Labor Statistics Website: and view job outlook data and salary information (if the Program has information available from professional associations or alumni surveys, enter that data)

who obtained a job after graduation, graduates found employment in the bioengineering industry, hospitals, academia, consulting, and government. Of those who pursued further education, 50% pursued further education in an engineering discipline whereas 31% pursued further education in medicine. Once again, since the program has not realized graduates yet, average salary data are not available for the students from the Bioengineering program. However, recent data reported by the



N/A

... and based on ... if appropriate, for further instructions to the ...

Report on the Program's goal (c) from the last review. List the goal (c) data that may have been collected to

(For Last 3 FYs)

N/A

Assessment Data Analyzed

N/A

N/A

the different concentrations. Additional faculty are also needed to reduce the advising load on the

[REDACTED]

[REDACTED]

**College:** Engineering

**Department/Program (s):** Bioengineering

**Degree (s) Offered:** BS

**Triggers:** Majors (14.33)

**Brief Description of Each Degree:**

The Bioengineering program prepares graduates for graduate study or employment related to societal health needs requiring interdisciplinary solutions. Through integration of science and

[REDACTED]

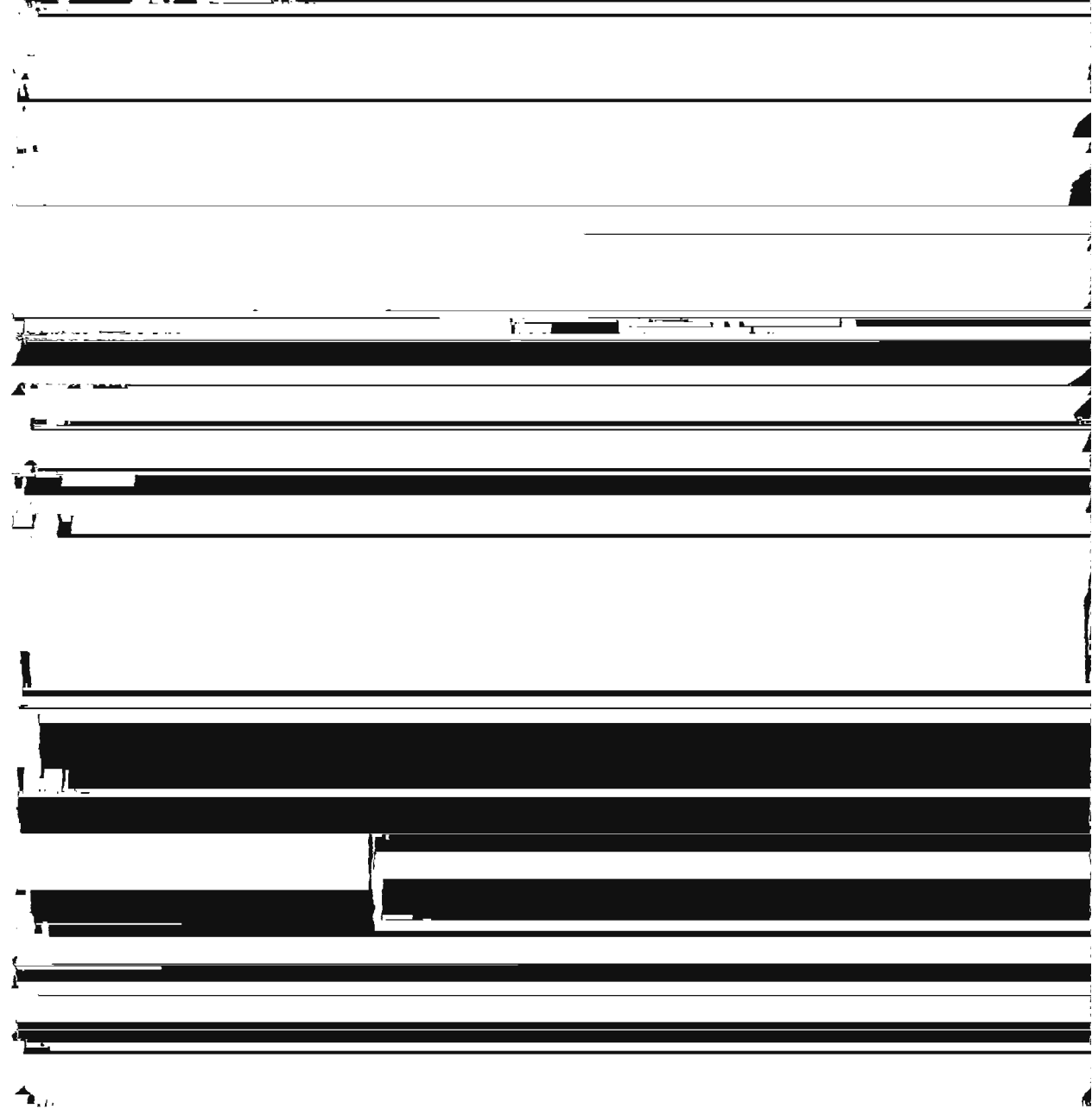
both in the classroom as well as participation in research opportunities. The program's level



**Faculty Resources:**

The dean has allocated Bioengineering faculty research laboratory and teaching space.

~~Intenured faculty are mentored through the College of Engineering's Faculty Mentor Program~~



**College:** Engineering

**Department/Program (s):** Bioengineering

**Degree (s) Offered:** BS

**Triggers:** Majors (14.33) – New program

**Brief Description of Each Degree:**

The Bioengineering program prepares graduates for graduate study or employment related to

health needs requiring interdisciplinary solutions. Through integration of science and

[REDACTED]

[REDACTED]

[REDACTED]

engineering principles, students are prepared to understand and contribute to scholarship,

to the degree as well as participation in research opportunities. The program is based

[REDACTED]

[REDACTED]

[REDACTED]

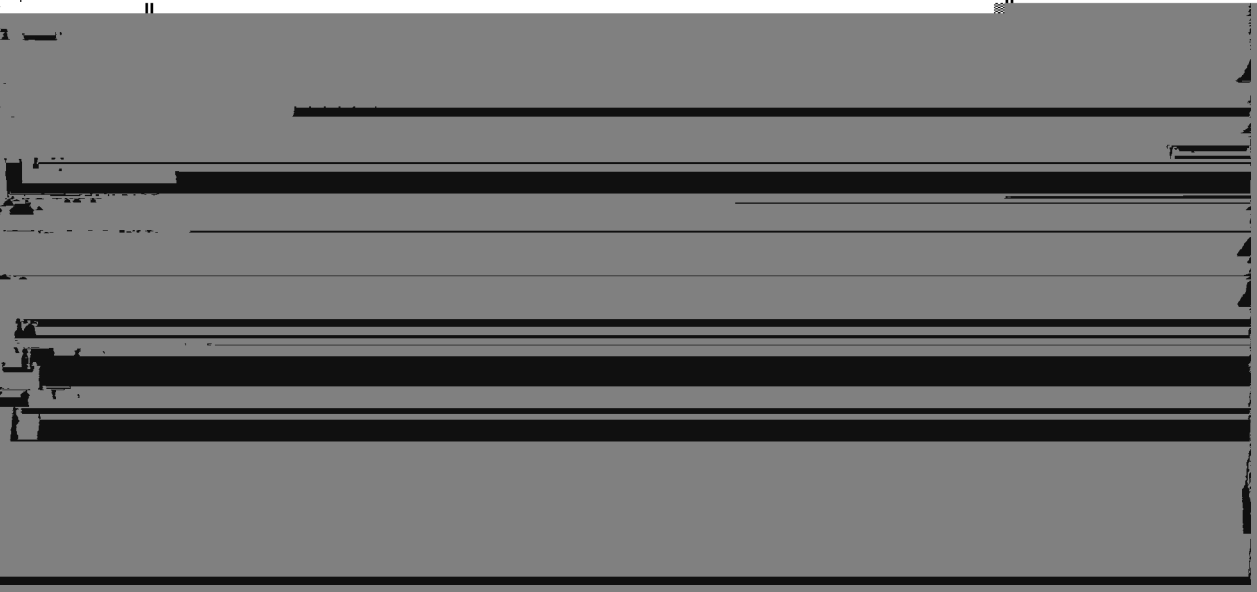
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**Recommendati**



- Targets: Expectations of students to achieve the desired outcome to demonstrate program effectiveness (e.g., 90% of students will demonstrate at least the benchmark performance on a project).

- Results: Actual achievement on each measurement (e.g., 94% of the

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students achieved at least the benchmark performance on the project).

- Analysis: An evaluation that determines the extent to which learning outcomes are being achieved and leads to decisions and actions to improve the program. The analysis and evaluation should align with specific learning outcomes and consider whether the measurement and target remain valid indicators of the learner.

Prior to the next review in 2015: