

EXECUTIVE SUMMARY

Item Name: Addendum to 2015-2016 Academic Strategic Plan for Northern Arizona University (NAU)

- Action Item
- Committee Recommendation to Full Board
- First Read of Proposed Policy Change
- Information or Discussion Item

Issue: Northern Arizona University asks the committee to review and recommend for board approval the proposed additions to it's 2015-2016 Academic Strategic Plan.

Enterprise or University Strategic Plan

- Empower Student Success and Learning
- Advance Educational Attainment within Arizona
- Create New Knowledge
- Impact Arizona
- Compliance
- Real property purchase/sale/lease
- Other: Academic Strategic Plan

Statutory/Policy Requirements

ABOR Policy 2-223.A, "The Academic Strategic Plan"

Background/History of Previous Board Action

- NAU requests approval for one new program as described in the attached table.

Discussion

This interdisciplinary PhD program builds primarily on strengths in NAU's Center for Bioengineering Innovation, Dept of Mechanical Engineering, and the Dept. of Biological Sciences. It also draws on strengths of NAU's School of Informatics, Computing and Cybersystems, and the Depts. of Physics, Chemistry & Biochemistry, and Physical Therapy & Athletic Training. Graduates will acquire skills in applied bioengineering research in areas of materials science, biophysical and biochemical characterization of materials, biological imaging and bio-inspired engineering design.

We envision that most graduates will fill high demand leadership positions in industrial research. The program facilitates NAU's ABOR goals of increasing extramural research funding and expanding the intellectual property portfolio. This proposed program was

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designed to have distinct research focus from the foci of the Biomedical Engineering Ph.D. programs at ASU and UA. The NAU program will provide opportunities for students in a very high demand area, and will complement Arizona's existing programs.

Requested Action

NAU asks the committee to review and forward to the full board the proposed addendum NAU's 2015-2016 Academic Strategic Plan.

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Table 1 - Proposed New Academic Programs

Name of Proposed Degree (degree type and major)	College/School (location)	Program Fee Required ? (Yes or No)	Additional State Funds Required? (Yes or No)	Brief Description/Justification (max 100 words)	Projected 3 rd Year Enrollment & Implementation Date
Bioengineering, PhD	College of Engineering, Forestry and Natural Sciences	No	No	This interdisciplinary PhD program builds primarily on strengths in NAU's Center for Bioengineering Innovation, Dept of Mechanical Engineering, and the Dept. of Biological Sciences. It also draws on strengths of NAU's School of Informatics, Computing and Cybersystems, and the Depts. of Physics, Chemistry & Biochemistry, and Physical Therapy & Athletic Training. Graduates will acquire skills in applied bioengineering research in areas of materials science, biophysical and biochemical characterization of materials, biological imaging and bio-inspired engineering design. We envision that most graduates will fill high demand leadership positions in industrial research. The program facilitates NAU's ABOR goals of increasing extramural research funding and expanding the intellectual property portfolio. This proposed program was designed to have distinct research focus from the foci of the Biomedical Engineering Ph.D. programs at ASU and UA. The NAU program will provide opportunities for students in a very high demand area, and will complement Arizona's existing programs.	Implement: Fall, 2016 Projected enrollment at three years: 12 students

