University at Buffalo The State University of New York

INFORMATION FOR JUNIORS

Department of Biomedical Engineering

Spring 2015

Dr. Albert H. Titus



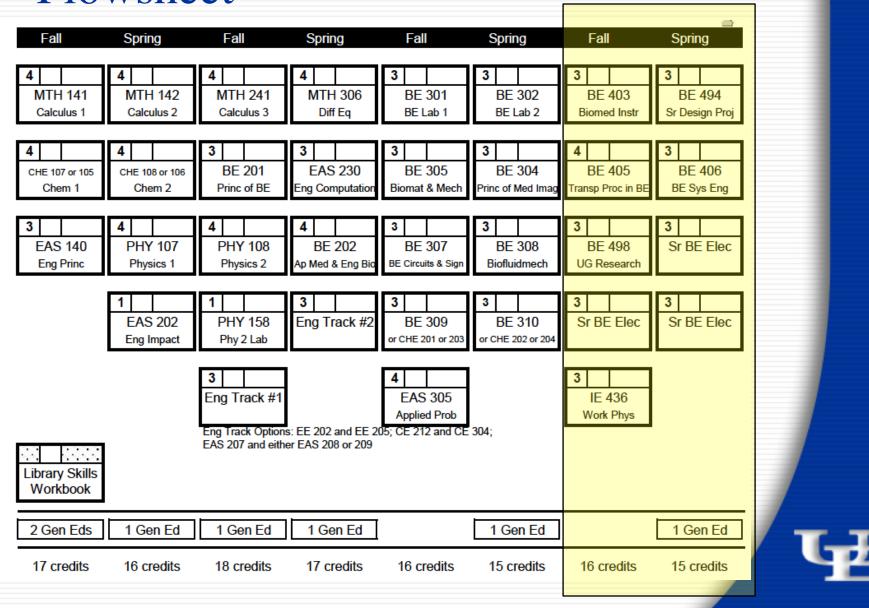
Outline

- Flowsheet and Senior Courses
- Technical Electives
- Research and Senior Design
- Independent Study and Research Credit
- Internships Credit for TE
- Jobs and/or Graduate School
- Questions?



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Flowsheet



Technical Electives

- Three Technical Elective (TE) slots
- At least two (2) must be BE courses
- One can be from outside of BME
 - Upper level technical course
 - List of approved TE courses from outside BME are on the website
 - Courses not already approved *may* be approved, upon consultation with Dr. Titus
- http://engineering.buffalo.edu/biomedical/ education/undergraduate-programs/ug-currentstudents/technical-electives.html



Technical Electives

- Check the HUB for the offerings for Fall 2015
- For planning purposes, these are offered this semester (spring 2015)
 - BE 400 Pattern Classification for Biomedical Data
 - BE 400 Introduction to Biomedical Optics and Ultrasound
 - BE 450 Orthopedic Science and Engineering
 - BE 455 Biomechanics and Mechanobiology
 - BE 480 BioMEMS Fabrication Lab
- An additional course or two may be added in the fall or spring. Emails will announce this



Senior Design

- Senior Design is a two-semester course that starts in the Fall with BE 498 and ends in the Spring with BE 494
- In the fall semester, you will form teams and select a project that must be *realized* by the end of spring semester
- Project ideas will be provided, or you can provide your own
- Register for BE 498 This will be the start of the sequence



Independent Study (BE 499) and Research Credit

- BE 498 is <u>not</u> for independent research with a faculty member
- To get credit for independent study (BE 499) doing research with a faculty member, you must:
 - Discuss this with the faculty member first to get his/her agreement
 - Register for BE 499
 - Fill out the form to get credit for this: Online Undergraduate forms (Independent Study Request for Credit Form)
 - This may count for one TE if done for 3 cr hrs
 - You can do BE 499 multiple times, but it will count as a TE only once



Internships – Credit for TE

- If you obtain an internship, you may be able to obtain credit for this work if it is actual engineering work
- Register for BE 496 (force registration only)
- See the BE department office for forms and requirements for your employer
- You can do multiple Internships, but it will count as a TE only once



Jobs and/or Graduate School

- Approximately 1 year until graduation
 - (422 days, but who's counting?)
- By the middle of the fall semester (October 15), you should be:
 - Cleaning and polishing your resume
 - Looking at BullsEye and other sites for jobs
 - Talking with faculty about letters for graduate school (deadlines are in December and January)
 - Look for graduate school info session notice





Questions?

Contact Dr. Titus: ahtitus@buffalo.edu

