SCOPE: The Biomaterials and Tissue Engineering Track is designed to equip BMEN students for the rapidly developing field at the multi-disciplinary interface of engineering, material science, biology, chemistry, and medicine. This track will provide students with a broad educational foundation with an emphasis on the principles and applications of biomaterials, particularly tissue engineering. Students will gain an understanding of biomaterial preparation and characterization, structure/property relationships, as well as cellular, blood, and tissue interactions with biomaterials. Selection and design of biomaterials for tissue engineering, artificial organs, drug delivery, and medical devices is presented.

Schedule an appointment with a track coordinator for course selection discussion and career advising. Track coordinators can be selected from Drs. Alge, Haridas, Gaharwar, Grunlan, Keller, Mabbott, D. Maitland, McShane and Raghavan.

Name: __________________________________________   UIN: _________________ Phone #: ____________________

TAMU Email: ____________________________________________   Graduation Term: ___________________________

Required Track Courses (Select 6-15 hours)
- BMEN 480 Biomedical Engineering of Tissues (3)
- BMEN 482 Polymeric Biomaterials (3)
- BMEN 483 Polymeric Biomaterial Synthesis (3)
- BMEN 486 Biomedical Nanotechnology (3)
- BMEN 487 Drug Delivery (3)

Track Courses (Select 0-9 hours)
- BMEN 491 (1-3)
- CHEM 466 Polymer Chemistry (3)
- CHEN 451 Introduction to Polymer Engineering (3)
- MEEN 458 Processing & Characterization of Polymers (3)
- MEEN 451 Viscoelastic Materials (3) †
- MEEN 467 Mechanical Behavior of Materials (3) †
- MEEN 475 Materials in Design (3) †
- MSEN 430 Nanomaterials Science (3)
- MSEN 410 Materials Processing (3)
- MSEN 420 Polymer Science (3)

† MEEN courses have prerequisites, but some BMEN courses may substitute. Discuss with BMEN advisor.

Other Courses (Select 0-3 hours)
- ACCT 640 Accounting Concepts & Procedures I (3)
- BMEN 4XX BMEN Elective (subject to track coordinator approval) (3) ____________
- BMEN 404 FDA Good Laboratory and Clinical Practices (3)
- BMEN 469 Entrepreneurial Issues in Biomedical Engineering (3)
- CHEM 228 Organic Chemistry II (3)
- ENGR 385 Co-Op (one semester credit hour per term up to three credit hours)
- VTPP 401 History of Medicine in Europe (3)
- VTPB 410 Cell Mechanisms of Disease (3)

If requesting a course not listed above, list here:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th># of Hours</th>
<th>Advisor Initials</th>
<th>Track Coordinator Initials</th>
<th>Dir. of Ugrad Programs Initials</th>
</tr>
</thead>
</table>

The approval of a deviation is made by the Director of Undergrad Programs who will take into consideration the recommendation of the advisor and a track coordinator. If applicable, why are you requesting a deviation from the approved list of courses?
Career Advising

What are your current plans after graduation?      Industry      Medical School      Graduate School      Military      Other

Please elaborate:

Have you participated in any of the following?        (Indicate completed or planned)

Undergraduate Research         Study Abroad         Volunteering
Internship                     Co-op             Shadowing
Student Organizations (member or leader?)          Other _________________________

The following items will help you be successful in obtaining your goals upon graduation:

☐ Craft a profile on Texas A&M Career Center’s website HireAggies.com
☐ Attend the SEC Career Fairs
☐ Attend BMES weekly meetings
☐ Create a resume and have it reviewed by the Career Center staff
☐ Draft a cover letter and have it reviewed by the Writing Center staff
☐ Build a LinkedIn account – https://www.linkedin.com/in/_______________________________
☐ If continuing education, study for and take the appropriate entry exams
☐ If attending medical school, meet with an advisor in the Texas A&M Office of Professional School Advising

Any item not checked above should be completed prior to the start of your senior year.

Recommendations/comments from Track Coordinator (required):

__________________________________________________________________________________________________

Approved and discussed by:

__________________________________________________    ____________________________
Student signature and date                  Director of Undergraduate Programs signature and date

(If deviating)

______________________________________    ______________________________________
Track Coordinator printed name                  Track Coordinator signature and date

Once this form is complete, schedule an appointment with your assigned Track Coordinator.

ADVISING OFFICE USE ONLY: Date received _________ Degree planner _________ Adjustments _________
Entered into Database _________ Signature and date ________________________________________________

Updated February 2020