Course Change Request

Date Submitted: 11/15/17 9:49 am

Viewing: BMEN 632 : Molecular and Cellular Biomechanics

Last edit: 11/19/17 10:01 am
Changes proposed by: mlyons

Catalog Pages referencing this course
- BMEN - Biomedical Engineering
- Department of Biomedical Engineering

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
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<th>Phone</th>
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<tbody>
<tr>
<td>Maria Lyons</td>
<td><a href="mailto:mlyons@tamu.edu">mlyons@tamu.edu</a></td>
<td>9798452312</td>
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</tbody>
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Rationale for Course

The proposed changes are part of a routine curriculum review.

Course prefix  BMEN  
Course number  632

Department  Biomedical Engineering
College/School  College of Engineering
Academic Level  Graduate
Academic Level (alternate)  Undergraduate
Effective term  2018-2019

Complete Course Title  Molecular and Cellular Biomechanics
Abbreviated Course Title  MOLECULAR & CELL BIOMECH

Catalog course description
Introduces biomolecules and their assemblies that play structural and dynamical roles in subcellular to cellular level mechanics, with emphasis on quantitative/theoretical descriptions, and discussions of the relevant experiment approaches to probe these nano to micro-scale phenomena; including topics in (1) self-assembly of cytoskeleton and biomembranes, (2) molecular motors, (3) cell motility, and mechanotransduction.

Prerequisites and Restrictions
Graduate classification or approval of instructor. BMEN 240 and MATH 308.

Concurrent Enrollment  No
Should catalog prerequisites / concurrent enrollment be enforced?  No

Crosslistings  No  Crosslisted With  
Stacked  No  Stacked with  

In Workflow
1. BMEN Department Head
2. Curricular Services Review
3. EN Committee Preparer GR
4. EN Committee Chair GR
5. EN College Dean GR
6. GC Preparer
7. GC Chair
8. Faculty Senate Preparer
9. Faculty Senate
10. Provost II
11. President
12. Curricular Services
13. Banner

Approval Path
1. 11/15/17 2:40 pm Mary McDougall (mmcdougall): Approved for BMEN Department Head
2. 11/19/17 10:02 am Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 11/30/17 11:19 am Jennifer Veracruz (jveracruz): Approved for EN Committee Preparer GR
4. 12/07/17 10:41 am Prasad Enjeti (enjeti): Approved for EN Committee Chair GR
5. 12/13/17 9:03 pm Prasad Enjeti (enjeti): Approved for EN College Dean GR
6. 01/02/18 4:35 pm LaRhesa Johnson (ljohnson): Approved for GC Preparer
7. 01/20/18 9:36 pm LaRhesa Johnson (ljohnson): Approved for GC Chair

https://nextcatalog.tamu.edu/courseleaf/approve/
<table>
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<th>Semester Credit Hour(s)</th>
<th>Contact Hour(s) (per week):</th>
<th>Lecture:</th>
<th>Lab:</th>
<th>Other:</th>
<th>Total</th>
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<td></td>
<td>3</td>
<td>0</td>
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Repeatable for credit? No
Three-peat? No
CIP/Fund Code 1405010006
Default Grade Mode Letter Grade(G)
Alternate Grade Modes Satisfactory/Unsatisfactory
Method of instruction Lecture
Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education) No
Will this course be taught as a distance education course? No
Is 100% of this course going to be taught in Texas? Yes
Will classroom space be needed for this course? Yes

This will be a required course or an elective course for the following programs:
- Required (select program)
- Elective (select program)

### Course Syllabus

Syllabus: Upload syllabus
Upload syllabus

Letters of support or other documentation No

Additional information
Removing the UG class prerequisite requirements since graduate students complete this content at universities other than TAMU and the current listing format limits student enrollment.

Reviewer Comments
Reported to state? No