

# Materials Science and Engineering Undergraduate Course Schedule

## Spring Term (2194)

| Required Courses |         |                                    |       |      |               |              |
|------------------|---------|------------------------------------|-------|------|---------------|--------------|
| Subj./Catlg#     | Class # | Course                             | Units | Days | Time          | Room         |
| ENGR 0022        | 13168   | Materials Structure & Properties   | 3     | MWF  | 1:00-1:50pm   | G30 Benedum  |
|                  | 13169   | <i>recitation</i>                  | 0     | M    | 4:00-4:50pm   | G29 Benedum  |
| ENGR 0135        | 13098   | Statics & Mechanics of Materials 1 | 3     | MWF  | 3:00-3:50pm   | 318 Benedum  |
| ENGR 0145        | 13091   | Statics & Mechanics of Materials 2 | 3     | MWF  | 3:00-3:50pm   | 157 Benedum  |
| MEMS 0031        | 14804   | Electrical Circuits                | 3     | MWF  | 5:00-5:50pm   | GS 138       |
| MEMS 0031        | 26743   | Electrical Circuits                | 3     | MWF  | 9:00-9:50am   | 104 Lawrence |
| MEMS 0040        | 14805   | Materials & Manufacturing          | 3     | MWF  | 4:00-4:50pm   | 157 Benedum  |
|                  | 14806   | <i>recitation</i>                  | 0     | Tu   | 9:00-9:50am   | G24 CL       |
| MEMS 0040        | 26745   | Materials & Manufacturing          | 3     | MWF  | 1:00-1:50pm   | 332 CL       |
|                  | 26746   | <i>recitation</i>                  | 0     | Tu   | 9:00-9:50am   | 123 Victoria |
| MEMS 0048        | 31117   | Thermodynamics of Materials        | 3     | MWF  | 2:00-2:50pm   | 358 CL       |
| MEMS 1011        | 16001   | Structure & Properties Lab         | 3     | TuTh | 1:00-3:50pm   | G24 Benedum  |
| MEMS 1028        | 16019   | Mechanical Design 1                | 3     | MWF  | 1:00-1:50pm   | 157 Benedum  |
| MEMS 1043        | 17162   | Senior Design Project              | 3     | TuTh | 11:00-12:25pm | 318 Benedum  |
| MEMS 1063        | 18803   | Phase Transformations              | 3     | MWF  | 3:00-3:50pm   | G37 Benedum  |
| MEMS 1070        | 16322   | Mechanical Behavior of Materials   | 3     | TuTh | 9:30-10:45am  | G26 Benedum  |
| MEMS 1079        | 17164   | Senior Materials Research Project  | 1-3   | TuTh | 2:00-4:50pm   | TBA          |
| MEMS 1085        | 14809   | Departmental Seminar               | 0     | Tu   | 10:00-10:50am | 121 Lawrence |

† Department Consent Required

‡ Instructor Consent Required

| Electives    |         |  |       |   |               |              |
|--------------|---------|--|-------|---|---------------|--------------|
| Subj./Catlg# | Class # | Course                                   | Units | Days  | Time          | Room         |
| ENGR 1050†   |         | Product Realization†                     | 3     | Tu  | 6:00-8:35pm   |              |
| ENGR 1090P†  | 26375   | Engineering Cooperative Program†         | 1     |   |               |              |
| ENGR 1701    | 13286   | Fundamentals of Nuclear Reactors         | 3     | W   | 6:00-8:30pm   | 129 Victoria |
| MEMS 1048†   | 24533   | Analysis & Charact at the Nanoscale      | 3     | M   | 4:00-6:25pm   | 327 CL       |
| MEMS 1097†   | 17165   | Special Projects†                        | 1-3   | TBA   | TBA           |              |
| MEMS 1098†   | 17166   | Special Projects II†                     | 1-3   | TBA   | TBA           |              |
| MEMS 1101    | 17017   | Ferrous Physical Metallurgy              | 3     | MWF   | 10:00-11:50am | G24 Benedum  |
| MEMS 1103    | 17167   | Princ. & Appls of Steel Process/Design   | 3     | MWF   | 11:00-11:50am | G27 Benedum  |
| MEMS 1163    |         | Ceramic Materials                        | 3     | Tu  | 4:00-6:25pm   |              |
| BIOENG 1071  | 13267   | Intro to Cell Biology 2                  | 3     | MWF   | 11:00-11:50am | 157 Benedum  |
|              | 18414   | <i>recitation</i>                        | 0     | Tu  | 8:00-8:50am   | G27 Benedum  |
|              | 13268   | <i>recitation</i>                        | 0     | Tu  | 9:00-9:50am   | G27 Benedum  |
|              | 13301   | <i>recitation</i>                        | 0     | Tu  | 12:00-12:50pm | G29 Benedum  |
|              | 21785   | <i>recitation</i>                        | 0     | Tu  | 4:00-4:50pm   | G27 Benedum  |
|              | 21786   | <i>recitation</i>                        | 0     | Tu  | 5:00-5:50pm   | G27 Benedum  |
| BIOENG 1810  | 30547   | Biomaterials and Biocompatibility        | 3     | TuTh  | 9:30-10:45am  | 226 Benedum  |
| CHEM 0310    |         | Organic Chemistry 1                      | 3     | <i>See Class Search/Browse Catalog on my.pitt.edu</i> |               |              |
| CHEM 0320    |         | Organic Chemistry 2                      | 3     | <i>See Class Search/Browse Catalog on my.pitt.edu</i> |               |              |
| CHEM 1600    | 10364   | Synthesis & Characterization of Polymers | 3     | MW  | 3:00-4:15pm   | 228 Eberly   |

For the Biomaterials option, BIOSCI 0105 and 0106 can be substituted for BIOENG 1070 and 1071. CHEM 0310 Organic Chemistry 1 is also recommended, but not required.

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| <b>Communications Skills Electives</b> |                |                                    |              |             |   |              |
|--|----------------|------------------------------------|--------------|-------------|---|--------------|
| <u>Subj./Catlg#</u>                    | <u>Class #</u> | <u>Course</u>                      | <u>Units</u> | <u>Days</u> | <u>Time</u>   | <u>Room</u>  |
| COMMRC 0500                            |                | Argument                           | 3            |             | <i>See Class Search/Browse Catalog on my.pitt.edu</i> |              |
| COMMRC 0520                            |                | Public Speaking                    | 3            |             | <i>See Class Search/Browse Catalog on my.pitt.edu</i> |              |
| ENGCOMP 0400                           |                | Written Professional Communication | 3            |             | <i>See Class Search/Browse Catalog on my.pitt.edu</i> |              |
| ENGCOMP 0600                           | 31627          | Introduction to Technical Writing  | 3            | M           | 6:00-8:30pm   | 116 Victoria |
| ENGCOMP 0600                           | 26655          | Introduction to Technical Writing  | 3            | TuTh        | 9:30-10:45am  | 237 CL       |