Industrial Design, B.S.
303-556-2916 Boulder Creek Building 124
College of Professional Studies

This sheet applies to the 2014-2015 catalog only. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors must work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

General Studies 35 min
Major courses 73
IND Electives 12
Total to graduate (min. 40 upper division hours) 120

This sheet applies to the 2014-2015 catalog only. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors must work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

Written Communication
___ ENG 1010 (3hrs) Composing Arguments*
OR ENG 1008/1009 (6 hrs.) Intro to Composition I & II*
___ ENG 1020 (3hrs) Freshman Comp: Anly, Rsrch, & Documt. (must be completed within 45-credit hours)

Oral Communication*
___ SPE 1010 (3hrs) Public Speaking

Quantitative Literacy*
___ MTH 1210 (4hrs) Introduction to Statistics

Arts & Humanities
___ ARTH 1500 (3hrs) Art & Visual Literacy
___ ARTH 1700 (3hrs) World Art II: Art 1400-1900**

Historical
___ (3hrs)

Natural & Physical Sciences
___ PHY 1000 (4 hrs) Introduction to Physics
___ (3 hrs)

Social & Behavioral Science I
___ (3 hrs)

Social & Behavioral Science II
___ PSY 1001 (3 hrs) Introductory Psychology

Global Diversity
___ ARTH 1700 World Art II: Art 1400-1900 (required in Arts & Humanities)

*TO BE COMPLETED WITHIN FIRST 30-CREDIT HOURS AT MSU DENVER

Major Courses:
___ ART 1101 (3 hrs) Studio Foundations: 2D
___ ART 1141 (3 hrs) Drawing I: Black and White
___ ART 1501 (3 hrs) Studio Dimensions: 3D
___ IND 1000 (1 hr) Introduction to Industrial Design
___ IND 1010 (3 hrs) Woods: Materials and Fabrication
___ IND 1130 (3 hrs) Plastics: Materials and Fabrication
___ IND 1250 (3 hrs) Metals: Materials and Fabrication
___ IND 1450 (3 hrs) Technical Drawing and CAD
___ IND 1470 (3 hrs) Design Drawing Techniques
___ IND 2100 (3 hrs) Digital Composition
___ IND 2450 (4 hrs) Beginning Industrial Design Studio
___ IND 2830 (3 hrs) Manufacturing Materials and Processes
___ IND 3450 (4 hrs) Intermediate Industrial Design Studio
___ IND 3480 (3 hrs) Industrial Design Model Making
___ IND 3600 (3 hrs) Digital Visualization Techniques in ID
___ IND 3660 (3 hrs) Computer Aided Modeling
___ IND 3800 (4 hrs) Design for Production
___ IND 3950 (3 hrs) History of Industrial Design
___ IND 4450 (4 hrs) Advanced Industrial Design Studio
___ IND 4460 (4 hrs) Professional Industrial Design Studio
___ IND 4540 (4 hrs) Concept and Portfolio Development
___ IND 4460 (4 hrs) Professional Internship (Senior Experience)
___ PSY 4410 (3 hrs) Human Factors Engineering

IND Electives: Students choose 12 semester hours of elective courses in consultation with an IND faculty advisor.

___ Multicultural Requirement
(May be satisfied within General Studies or electives)
IND ADVISING MATRIX - a representative 8 semesters

This guide accounts for prerequisites and the current portfolio requirement. The guide is for the advisor and the student to work out the student's specific needs. Transfer credits, the opportunity for summer and winterim classes, and course availability affect final schedules.

**IND required courses**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND 1000-1 Introduction to Industrial Design</td>
<td>ART 1141-3 Drawing I</td>
<td>ART 1501-3 3D Design</td>
<td>IND 2450-4 Beginning ID Studio</td>
<td>IND 3450-4 Intermediate ID Studio</td>
<td>IND 4450-4 Advanced ID Studio</td>
<td>IND 4460-4 Professional ID Studio</td>
<td></td>
</tr>
<tr>
<td>*IND 1250-3 Metals &amp; Fabrication</td>
<td>*IND 1450-3 Technical Drawing and CAD</td>
<td>Prerequisite for IND 3480</td>
<td>*IND 1470-3 Design Drawing Techniques</td>
<td>Registration requires a successful 60 hour portfolio review (P)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*IND 1130-3 Plastics, Materials &amp; Fabrication</td>
<td>Prerequisite for IND 3480</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisite for IND 3680</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16 hours</td>
<td>16 hours</td>
<td>16 hours</td>
<td>13 hours</td>
<td>16 hours</td>
<td>16 hours</td>
<td>14 hours</td>
<td>16 hours</td>
</tr>
</tbody>
</table>

**General Studies and Electives**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 1210-4 Intro to Statistics</td>
<td>PHY 1000-4 Intro to Physics</td>
<td>ARTH 1700-3 World Art I</td>
<td>ARTH 1500-3 Art and Visual Literacy</td>
</tr>
<tr>
<td>Quantitative Literacy (Within 30 hours)</td>
<td>Natural and Physical Science</td>
<td></td>
<td>Arts and Humanities</td>
</tr>
<tr>
<td>SPE 1010-3 Public Speaking</td>
<td>PHR 1020-3 Written Communication (Within 60 hours)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication (Within 30 hours)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 1010-3 Composing Arguments</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written Communication (Within 30 hours)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**IND Electives (Required 12 credit hrs.)**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre req: ENG 1010, Pre req: IND 1130</td>
<td>Pre req: IND 1130</td>
<td>Pre req: IND 2450</td>
<td>Pre req: IND 1450, IND 1470</td>
</tr>
<tr>
<td>IND 3050-3 Advanced Sketching</td>
<td>IND 3330-3 Wood Furniture Design</td>
<td>IND 4410-3 Material Science</td>
<td>IND 390 I-3 Plastic Furniture Design</td>
</tr>
<tr>
<td>Pre req: IND 1470</td>
<td>Pre req: IND 1010 or IND 1300</td>
<td>Pre req: IND 3680</td>
<td>Pre req: IND 2450</td>
</tr>
<tr>
<td>IND 2850-3 Introduction to Psychology</td>
<td>IND 4410-3 Human Factors</td>
<td>IND 4410-3 Human Factors</td>
<td>IND 390 K-3 Bicycle Design &amp; Fabrication</td>
</tr>
<tr>
<td>SPRING ONLY</td>
<td>SPRING ONLY</td>
<td>SPRING ONLY</td>
<td>SPRING ONLY</td>
</tr>
</tbody>
</table>

**Note:**

IND 3680, IND 3950, IND 1001, IND 4410
These four courses are the four studio classes which must be sequential.

**KEY:**

- Leads to a prerequisite for a required class
- Class with prerequisite(s)
- All classes to left of red line required for 60 hour portfolio review (P)
- Gray shaded courses are the four studio classes which must be sequential
- Courses with dotted outline are IND elective courses

University approved General Studies courses can be found at:
http://catalog.msudenver.edu/preview_program.php?catoid=13&poid=2472#G8_Courses

**University of Denver Industrial Design**