

**Bachelor of Science (BS)**  
**Degree Code 576\***  
**Concentration Code 576C**  
**Non-Teaching**

**Program of Study for**  
**Technology & Environmental Design Majors**  
**Industrial Design / Product Design Concen**

**I. GENERAL EDUCATION** ..... **44**  
 (Math 1020 fulfills the Quantitative Literacy requirement. Art 2130 and IND 2012 taken for the major may count toward General Education if completing a theme).

**II. MAJOR REQUIREMENTS** (Not including 4 semester hours already counted in I, above) ..... **89**  
**A minimum grade of “C” (2.0) is required in each Technology Department course. 18 sh must be completed at Appalachian.**  
**\*Note: Students must declare IND major before registering for 3000 level courses. Students must pass a portfolio review in the sophomore year to advance to upper level Product Design courses. Students lacking proficiency in word processing, spreadsheets, internet, and email must take an introductory computer course.**

**Junior Writing in the Discipline (WID)\_\_\_\_\_ & Senior Capstone Experience (CAP)\_\_\_\_\_ must be met.**

**Introductory Courses (22 sh)**

- ART 2130 \_\_\_\_\_ (3) Art from 1400 to the Present (GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: “Traditions and Innovations”); Local to Global Perspective (Theme: “Empire Colonialism, and Globalization”))
- IND 1010 \_\_\_\_\_ (3) CADD I: Imaging
- IND 2012 \_\_\_\_\_ (3) Product Design (Gen Ed: Aesthetic Perspective (Theme: “Shaping the Human Environment))
- IND 2201 \_\_\_\_\_ (3) Design Drawing I
- INT 1001 \_\_\_\_\_ (3) Visual Literacy I
- INT 1002 \_\_\_\_\_ (3) Visual Literacy II
- MAT 1020 \_\_\_\_\_ (4) College Algebra (or higher) (Gen. Ed: Quantitative Literacy)

**Materials & Processes and History (18 sh)**

- IND 2120 \_\_\_\_\_ (3) Materials and Processes I
- IND 2301 \_\_\_\_\_ (3) Model Making
- IND 2311 \_\_\_\_\_ (3) Human Factors in Design
- IND 2401 \_\_\_\_\_ (3) History of Furniture Design
- IND 3120 \_\_\_\_\_ (3) Materials and Processes II
- INT 2310 \_\_\_\_\_ (3) History of Interior Design and Architecture II (Prerequisite: Completion of the Freshman Portfolio Review or permission of the instructor)

**Product Design Courses (40 sh)**

- IND 2411 \_\_\_\_\_ (3) Introduction to Design Studio (Prerequisites: INT 1001, INT 1002, and IND 2201)
- IND 2421 \_\_\_\_\_ (3) Preliminary Design Studio (Prerequisites: INT 1001, INT 1002, and IND 2201)
- IND 2901 \_\_\_\_\_ (3) CADD II: Free Modeling (Prerequisite: IND 1010 or permission of the instructor)
- IND 3701 \_\_\_\_\_ (4) Product Design Studio I (**WID**) (Prerequisites: ENG 2001 or its equivalent, IND 1010, IND 2120, IND 2411 or IND 2421, and declared major in Industrial Design)
- IND 3711 \_\_\_\_\_ (4) Product Design Studio II (Prerequisite: IND 3701)
- IND 3901 \_\_\_\_\_ (3) CADD III: Parametric Modeling (Prerequisites: IND 1010 and 2901 or permission of the instructor)
- IND 4557 \_\_\_\_\_ (3) Design for Manufacture (Prerequisite: IND 3701 or permission of the instructor)
- IND 4701 \_\_\_\_\_ (5) Product Design Studio III (Prerequisite: IND 3711)
- IND 4711 \_\_\_\_\_ (5) Product Design Studio IV (Prerequisite: IND 4701)
- IND 4800 \_\_\_\_\_ (0) Industrial Design Senior Field Study
- IND 4811 \_\_\_\_\_ (3) Professional Practice in Industrial Design
- TEC 4900 \_\_\_\_\_ (4) Internship (**CAP**)

**Electives (9 sh)** Chosen in consultation with IND advisor (See advisor for list of courses)

Recommended Electives

- IND 2321 \_\_\_\_\_ (3) Physical Principles for Designers
- IND 3911 \_\_\_\_\_ (3) Rapid Prototyping (Prerequisite: IND 2901)
- TEC 2116 \_\_\_\_\_ (3) Ceramic Technology
- TEC 3039 \_\_\_\_\_ (3) Materials Science

International Studies & Foreign Languages Courses

**III. MINOR – NOT REQUIRED**

**IV. FREE ELECTIVES (taken to total 125 for the degree)** ..... **2**  
**2 sh free electives outside the major discipline are required** ..... **125**

Major Requirements that may count toward Gen. Ed.:	
Math 1020 (4)	Quantitative Literacy
ART 2130 (3)	Perspectives ( depends on choices)
IND 2012 (3)	Aesthetics Perspective
Total Major Hrs: 89	
Gen Ed:	-10
Net Major Hrs:	79