

## **NJIT Open and Affordable Textbook (OAT) Initiative: Academic Year 2017-2018 Awardees and Projects**

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The NJIT Open and Affordable Textbook Initiative realized a projected cost saving and impact for academic year 2017-2018.

- Projected cost saving of **\$163,382**
- Total number of students impacted: **1,735**
- Total number of course curriculum redesigned: 12 courses
- Total number of faculty participated: 11 faculty
- College represented: 3 (NCE), 3 (CSLA), 3 (MTSoM), and 2 (YWCC)

### **Dr. Matthew Bandelt, Assistant Professor of Civil and Environmental Engineering**

Course: CE 333: Reinforced Concrete Design

Taught: Fall 2017

Est. Saving: Approximately 38 students impacted per year | Projected savings: \$4,560

Goal: Replace the current text with reduced/low-cost resources and provide access to tools students will use in engineering practices.

### **Dr. Barry Cohen, Associate Dean, Computer Science**

Course: CS100: Roadmap to Computing

Taught: Fall 2017, Spring 2018

Est. Saving: approximately 795 students impacted per year | Projected savings: \$38,470

Goal: Replace the current text with free open educational resources and increase the frequency and effective utilization of the textbook.

### **Dr. Walid Hubbi, Associate Professor of Electrical and Computer Engineering**

Course: ECE 341: Energy Conversion

Taught: Fall 2017, Spring 2018

Est. Saving: approximately 76 students impacted per year | Projected savings: \$15,200

Goal: Replace the current text with varied learning resources and assignment problems. Students will search for and recommend learning resources for specific topics.

### **Dr. Antje Ihlefeld, Assistant Professor of Biomedical Engineering**

Course: BME 333: Biomedical Signals and Systems

Taught: Spring 2018

Est. Saving: approximately 20 students impacted per year | Projected savings: \$3,793

Goal: Replace the current text with self-developed open educational videos. The aim is to change from lecture-style to a flipped classroom model that involves hands-on, interactive problem solving in class.

### **Dr. Burt Kimmelman, Professor of English**

Course: HSS 403: Literary Journalism: Fact and Truth

Taught: Fall 2017

Est. Saving: approximately 23 students impacted per year

Goal: Replace the current text with no-cost open educational resources.

**Dr. Esther Lewars, Adjunct Faculty, Division of Information Systems**

Course: IS 265: Introduction to Information Systems

Taught: Fall 2017, Spring 2018

Est. Saving: approximately 66 students impacted per year | Projected savings: \$5,403

Goal: Replace the current text with a low-cost alternative or open educational resource textbook.

**Dr. Junmin Shi, Associate Professor of Supply Chain and Finance**

Course: MGMT 216: Business Statistics

Taught: Fall 2017, Spring 2018

Est. Savings: approximately 58 students impacted per year | Projected savings: \$8,700

Goal: Develop open educational resources and lectures that explore real business examples.

**Dr. Mark Somers, Professor of Management & Organizational Behavior**

Course: HRM 301: Organizational Behavior

Taught: Fall 2017, Spring 2018

Est. Saving: approximately 78 students impacted per year | Projected savings: \$16,023

Goal: Replace the current text with open educational resource textbook.

**Dr. Maria Stanko, University Lecturer of Biological Sciences**

Course: BIOL 200: Concepts in Biology

Taught: Fall 2017, Spring 2018

Est. Saving: approximately 465 students impacted per year | Projected savings: \$60,450

Goal: Improve alignment of course material with free resources and ease the transition to a textbook-free course.

**Ms. Anika Waltz-Cummings, University Lecturer of Humanities**

Course: ENG 352: Technical Writing, HUM 102: Speaking, and Thinking II

Taught: Fall 2017, Spring 2018

Est. Saving: approximately 116 students impacted per year | Projected savings: \$10,782

Goal: Replace the current text with educational materials of nominal cost and higher applicability.