

## Global Leadership in Design & Innovation

Departmental Study Abroad

Technology Leadership & Innovation

May 13 – 26, 2019

3 Credits

Dr. Greg J. Strimel



### Program Description

Innovation capacity continues to be a national concern as U.S. competitiveness and prosperity in a global economy depends on developing and maintaining competitive industries and strong innovation-capable workforce. Consequently, the National Academy of Engineering's (2015) *Educate to Innovate* report states "innovative thinking should be an expectation of the university community and all students should be exposed to it early in their university experience, through a variety of educational formats and delivery methods." In a response to these demands, the *Global Leadership in Design & Innovation* study abroad program has been developed to provide undergraduate and graduate students in the Purdue Polytechnic, specifically those within the Department of Technology Leadership & Innovation, an immersive cultural experience within a nation consistently ranked as leader in innovation.



The study abroad program will be located in Stockholm, Sweden and consist of a 3-credit course focused on building global perspectives critical for innovation success in design and education. Stockholm is considered one of the most beautiful capitals in the world. Nicknamed the "Venice of the North," Stockholm is located upon 14 islands between two waters, Lake Malaren and the Baltic Sea. Stockholm was founded in 1252 and is an extraordinary city with a unique composure of old and new. This study abroad program has also been designed to be of distinct interest to students majoring in *Engineering/Technology Teacher Education*, as Sweden is often referred to as one of the origins of K-12 technology education.

The study abroad program will be offered during Maymester (May 13 – 26) and will include experiences at the Nobel Prize Museum Cultures of Creativity Exhibit and Banquet Hall, the National Museum of Science and Technology's interactive exhibition of the top 100 innovations, industries leading in innovation, activities in K-12 design/technology classrooms, and multidisciplinary forums in innovative thinking at the KTH Royal Institute of Technology. KTH is the largest and oldest institution for engineering education and technical research in Sweden with roots going back to the beginning of the 19th century. The academic program covers a wide spectrum of subjects from natural sciences to all areas of technology for about 14,500 students.

The *Global Leadership in Design & Innovation* course focuses on the rich history of Swedish design and innovation. Students will specifically examine the ways in which the Swedish culture fosters innovation through technology education/training. Students will interact with primary and secondary schools and other engineering/technology education majors at KTH to develop a global perspective on fostering creativity in classrooms. Additionally, students will explore historical Viking establishments and investigate the ways in which these early Scandinavian settlements advanced through technological development.

## Preliminary Itinerary

Monday, May 13	Tuesday, May 14	Wednesday, May 15	Thursday, May 16	Friday, May 17	Saturday, May 18	Sunday, May 19
<ul style="list-style-type: none"> <li>❖ Young 354               <ul style="list-style-type: none"> <li>➤ Design Thinking Globally</li> <li>➤ Course Assignments</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ Young 354               <ul style="list-style-type: none"> <li>➤ Swedish Culture of Innovation</li> <li>➤ Swedish Design (KTH Faculty)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ Travel               <ul style="list-style-type: none"> <li>➤ Chicago ORD</li> <li>➤ Overnight Flight</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ Travel               <ul style="list-style-type: none"> <li>➤ Arrive in Stockholm</li> <li>➤ Arlanda Express to Stockholm Central</li> <li>➤ <a href="#">Hotel Check-in</a></li> <li>➤ Walking tour of <a href="#">Gamla Stan</a></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ <a href="#">Visit KTH</a> <ul style="list-style-type: none"> <li>➤ Meet with students</li> <li>➤ Tour Campus</li> </ul> </li> <li>❖ <a href="#">Visit House of Science</a> <ul style="list-style-type: none"> <li>➤ Innovative Experiments</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ <a href="#">Travel to Gotland</a> <ul style="list-style-type: none"> <li>➤ <a href="#">Viking Exploration</a></li> <li>➤ Evolution of Technology</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ <a href="#">Travel to Stockholm</a> <ul style="list-style-type: none"> <li>➤ Assignment Review</li> </ul> </li> <li>❖ Swedish Design</li> <li>❖ Bus Tour</li> </ul>

Monday, May 20	Tuesday, May 21	Wednesday, May 22	Thursday, May 23	Friday, May 24	Saturday, May 25	Sunday May 26
<ul style="list-style-type: none"> <li>❖ <a href="#">Tom Tit's Science Center</a> Experiments               <ul style="list-style-type: none"> <li>➤ Private Tour</li> <li>➤ Project Development</li> </ul> </li> <li>❖ <a href="#">Scania</a> <ul style="list-style-type: none"> <li>➤ <a href="#">Industry</a></li> <li>➤ <a href="#">High School</a></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ <a href="#">Primary School Visits</a> <ul style="list-style-type: none"> <li>➤ <a href="#">Sloyd</a></li> <li>➤ <a href="#">Technology Education</a></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ <a href="#">Tekniska Museum</a> <ul style="list-style-type: none"> <li>➤ 100 Greatest Innovations</li> <li>➤ Swedish Sloyd</li> <li>➤ Christopher Polhem</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ <a href="#">Vasa Museum</a></li> <li>❖ Nordiska Museum</li> <li>❖ <a href="#">Gruna Lund</a></li> </ul>	<ul style="list-style-type: none"> <li>❖ KTH Student Presentations</li> </ul>	<ul style="list-style-type: none"> <li>❖ <a href="#">Nobel Museum</a></li> <li>❖ <a href="#">Cultures of Creativity 60 Minute Guided Tour</a></li> <li>❖ <a href="#">Lunch at the Bistro Nobel</a></li> </ul>	<ul style="list-style-type: none"> <li>❖ Travel Home</li> </ul>