

March 18, 2021

The **Minnesota State Engineering Center of Excellence** is proud to announce that **St. Cloud State University, Department of Environmental & Technical Studies** may grant three graduate credits to teachers who have successfully completed the **Siemens Engineering Design Teacher Training**, paid the **tuition fees** and completed a successful final project review. Teachers may apply for an additional credit based on work done for program implementation. Siemens is committed to making the Siemens Engineering Design course effective and affordable for any secondary school and are pleased to offer these trainings free of charge. Siemens Engineering Design Teacher Training instructors are Tom White and Dick Blais.

To apply for College Graduate Credit:

1. Trained teacher contacts Professor Helgeson (contact information below) for application process
2. Trained teacher pays the tuition
3. Submits a copy of the Siemens Certificate of ***40 Hours of Continuing Education Units of Credit*** and copy of ***final project*** for review
4. Professor Helgeson initiates the award of the credit to the teacher

College Graduate Credit contact:

Dr. Kurt R. Helgeson
Professor & Department Chair
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The **Siemens Engineering Design** course is the perfect introductory curriculum for middle school, high school and maker spaces. This course challenges students to work in teams to solve complex design problems. The students will research, design, develop, and communicate design solutions. Teams use engineering software to prepare and evaluate designs and make extensive use of 3D printing to prepare models for presentation to authentic audiences. The goal of the course is the application of the tools to address unique problems allowing the students to rapidly create and analyze proposed solutions. Siemens' software and hardware are tools frequently used by industry and understanding how these tools are used in problem solving is critical.