PATIENT SAFETY, GRADUATE/PROFESSIONAL CERTIFICATE

It has been estimated that at least 98,000 US adults die each year from medical errors; fewer people die from breast cancer, AIDS, or auto accidents. The costs associated with preventable medical errors exceed $17 billion. To help train scientists and practitioners to effectively reduce the likelihood of preventable patient harm, the University of Wisconsin–Madison (http://www.wisc.edu/) offers the Graduate Certificate in Patient Safety. The certificate is supported by the School of Medicine and Public Health (http://www.med.wisc.edu/), School of Nursing (http://www.son.wisc.edu/), School of Pharmacy (http://www.pharmacy.wisc.edu/), and College of Engineering (http://www.engr.wisc.edu/).

Objective: To increase student knowledge about how systems engineering and systems design can be used to identify, analyze and solve patient safety research and applied problems.

The graduate/professional certificate in patient safety is an interdisciplinary effort between the Department of Industrial and Systems Engineering, School of Nursing, School of Pharmacy, Department of Medical Physics, and Department of Population Health Sciences. Patient safety is of national and international importance and there is a shortage of people with expertise in the design of safe health care systems and technologies that can improve patient safety. Such expertise is important to physicians, nurses, pharmacists, and other health care professionals, and engineers. The certificate in patient safety provides students with knowledge and skills in an array of topics necessary for the identification, analysis, and control of patient safety programs.

ADMISSIONS

PREREQUISITES

1. Accepted into a graduate or professional degree program
2. Full- or part-time graduate student status
3. One of the following three:
4. A degree in a health-care-related field (that is, nursing, medicine, pharmacy, population health, public health, health care administration, health systems management, health care management), or
5. Work experience in health care delivery, or

The reason for the three options for prerequisites is to allow students with and without health care backgrounds to obtain the certificate.

IMPORTANT: students must choose one of the core faculty members listed below as an advisor. The advisor will determine if a student has met the prerequisite requirement. Advisors must sign the section of the curriculum form titled "Patient Safety Certificate Application and Completion" in order for students to enroll.

HOW TO OBTAIN THE PATIENT SAFETY CERTIFICATE

• To complete the Patient Safety Certificate application, please complete a Patient Safety Declaration Form (https://docs.google.com/forms/d/e/1FAIpQLSfbsOcd8o2yhxuBqXMBS6GR6dRtImLuUqkrkbUcHFNFOQ/vi/1) prior to enrollment of I SY E 699 Advanced Independent Study.
• The semester of your graduation, please complete the Patient Safety Certificate Completion Form (https://docs.google.com/forms/d/e/1FAIpQLSv7S18JNGXwXE6gyswA22cQR9pHY5jKVRK98Lbmrg/vi/1) and obtain your advisor’s signature and upload to online system; Send email of confirmation of completion of certificate requirements to prpeterson@wisc.edu.

Any questions about this process can be directed to prpeterson@wisc.edu (prpeterson@wisc.edu)

EXIT REQUIREMENTS

• GPA of 3.2 or above for the Patient Safety Certificate Curriculum courses (mandatory and elective combined).
• Completion of all mandatory and elective courses.

REQUIREMENTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHARMACY/ I SY E 608</td>
<td>Safety and Quality in the Medication Use System</td>
<td>3</td>
</tr>
<tr>
<td>I SY E 557</td>
<td>Human Factors Engineering for Healthcare Systems</td>
<td>3</td>
</tr>
<tr>
<td>I SY E/ POP HLTH 703</td>
<td>Quality of Health Care: Evaluation and Assurance</td>
<td>3</td>
</tr>
<tr>
<td>One of the following options:</td>
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<td>3</td>
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<td>I SY E 555</td>
<td>Human Performance and Accident Causation</td>
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<tr>
<td>I SY E/ MED PHYS 559 &amp; I SY E 699</td>
<td>Patient Safety and Error Reduction in Healthcare and Advanced Independent Study</td>
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<tr>
<td>I SY E/PSYCH 653</td>
<td>Organization and Job Design</td>
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<tr>
<td>Elective</td>
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<td>3</td>
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<td>Total Credits</td>
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1 Students take 1 credit of I SY E 699 when paired with I SY E/ MED PHYS 559, a 2-credit course.

PEOPLE

ADVISORS

Students must choose one of the core faculty members listed below as an advisor:

• Pascale Carayon (https://www.engr.wisc.edu/ie/faculty/carayon pasado.html)
  Industrial & Systems Engineering
• Michelle Chui (https://pharmacy.wisc.edu/chui-research-group/dr-michelle-chui/)
  Pharmacy
• Linsey Steege (https://nursing.wisc.edu/staff/steege-linsey/)
  School of Nursing
• Funmi Abraham (https://apps.pharmacy.wisc.edu/sopdir/olufunmilola_abraham/)
  Pharmacy
• Maureen Smith (https://pophealth.wisc.edu/staff/smith-maureen/)
  Population Health Sciences
• Nicole Werner (https://wernerlab.engr.wisc.edu/)
  Industrial & Systems Engineering
• Doug Wiegmann (https://directory.engr.wisc.edu/ie/Faculty/Wiegmann_Douglas/)
  Industrial & Systems Engineering