

Engineering Curriculum Committee**Minutes of Meeting #1****August 30, 2021**

Present: Marais, Alexeenko, Bertodano, Comer, Fricker, Harris, Howarter, Liu, Martinez, McMillan, Panchal, Rispoli, Weider

Recorder: Vaughn

1. Meeting was called to order at 12:32 pm via Teams.
2. Motion to approve the agenda for meeting #1 was made by Harris and seconded by McMillan. Motion passed.
3. Motion to approve the minutes from meeting #22 (05/03/2021) was made by McMillan and seconded by Liu. Motion passed with one abstention.
4. Welcome to new members: Martin Bertodano, (NE alternate), Sean Brophy (ENE), Jon Fricker (CE alternate), Carlos Martinez (MSE alternate) Jitesh Panchal (ME), Joseph Rispoli (BME)
5. Motion to approve the following EFD on behalf of the faculty was made by Harris and seconded by Comer:
 - a. EFD 04-22 ME 62000 Combustion of Energetic Materials – new graduate courseMotion passed with one abstention.
6. Motion to approve the following EFD on behalf of the faculty was made by Harris and seconded by Comer:
 - a. EFD 05-22 ME 61700 Applied Thermal Physics and Molecular Spectroscopy – new graduate courseMotion passed with one abstention.
7. Old business: no changes.
8. New business: no new business.
9. Motion to adjourn was made by Weidner and seconded by Comer. The meeting adjourned at 1:15 pm.

Engineering Curriculum Committee**Minutes of Meeting #2****September 13, 2021**

Present: Marais, Alexeenko, Brophy, Comer, Fricker, Harris, Howarter, Liu, Lopez de Bertodano, McMillan, Panchal, Rispoli, Weidner

Recorder: Vaughn

1. Meeting was called to order at 12:32 pm via Teams.
2. Motion to approve the agenda for meeting #2 was made by Weidner and seconded by Liu. Motion passed.
3. Motion to approve the minutes from meeting #1 (08/30/2021) was made by Weidner and seconded by Fricker. Motion passed with revision.
4. Motion to approve for distribution to the faculty the following EFD was made by Rispoli and seconded by Weidner:
 - a. EFD 06-20 BME Grad Certificate in Regulatory Affairs and Regulatory Science for Medical Devices – new graduate concentrationMotion passed.
5. Motion to approve for distribution to the faculty the following EFD was made by Harris and seconded by Rispoli:
 - a. EFD 74-21 CHE 50200 Analytical Approach to Healthcare Delivery – new graduate courseMotion passed.
6. Old business: no changes.
7. New business: no new business.
8. Motion to adjourn was made by Comer and seconded by Harris. The meeting adjourned at 1:02 pm.

Engineering Curriculum Committee**Minutes of Meeting #3****Date:** September 20, 2021**Present:** Marais (chair), Alexeenko, Bertodano, Brophy, Comer, Harris, Howarter, Liu, Martinez, McMillan, Panchal, Rispoli, Weidner**Recorder:** Vaughn

1. Meeting was called to order at 12:32 pm via Teams.
2. Motion to approve the agenda for meeting #3 was made by Comer and seconded by Weidner. Motion passed.
3. Motion to approve the minutes from meeting #2 (8/30/2021) was made by McMillan and seconded by Harris. Motion passed.
4. Motion to approve for distribution to the faculty the following EFD was made by Comer and seconded by Weidner:

- a. EFD 07-22 ECE 51216 Digital Systems Design Automation – new graduate course

Motion passed.

5. Motion to approve for distribution to the faculty the following EFD was made by Comer and seconded by Weidner:

- a. EFD 08-22 ECE 51220 Applied Algorithms – new graduate course

Motion passed.

6. Motion to approve for distribution to the faculty the following EFD was made by Comer and seconded by McMillan:

- a. EFD 09-22 ECE 60827 Programmable Accelerator Architectures – new graduate course

Motion passed.

7. Motion to approve for distribution to the faculty the following EFD was made by Comer and seconded by Weidner:

- a. EFD 10-22 ECE 50631 Fundamentals of Current Flow – new graduate course

Motion passed.

8. Motion to approve for distribution to the faculty the following EFD was made by Comer and seconded by Weidner:

- a. EFD 11-22 ECE 50632 Introduction to Quantum Transport – new graduate course

Motion passed.

9. Motion to approve for distribution to the faculty the following EFD was made by Comer and seconded by Harris:

- a. EFD 12-22 ECE 50633 Boltzmann Law: Physics to Computing – new graduate course

Motion passed.

10. Motion to approve for distribution to the faculty the following EFD was made by Comer and seconded by Liu:

- a. EFD 13-22 ECE 61010 Time Domain Simulation and Optimization for Design – new graduate course

Motion passed.

11. Motion to approve for distribution to the faculty the following EFD was made by Comer and seconded by Weidner:

- a. EFD 14-22 ECE 50024 Machine Learning – new graduate course

EFD tabled.

12. Old business: no changes.

13. New business: no new business.

14. Motion to adjourn was made by Harris and seconded by Rispoli. The meeting adjourned at 1:26 pm.

Engineering Curriculum Committee Minutes

Meeting: #4
Date: 9/27/2021
Present: Marais (chair), Alexeenko (ex-officio), Fricker, Harris, Hess, Howarter, Liu, Lopez de Bertodano, Martinez, McMillan, Panchal, Rispoli, Weidner
Recorder: Vaughn

1. Meeting was called to order at 12:31 pm via Teams.
2. Motion to approve the agenda for meeting #4 was made by McMillan and seconded by Hess. Motion passed unanimously.
3. Motion to approve the minutes from meeting #3 (9/20/2021) was made by Sara and seconded by Rispoli. Motion passed with one abstention.
4. Motion to approve for distribution to the faculty the following EFD was made by Martinez and seconded by McMillan. Motion passed unanimously.
 - 4.1. EFD 16-22 MSE 51800 Digital Systems Design Automation – new graduate course
5. Old Business
 - 5.1. Previously tabled EFDs approved for distribution to faculty:
 - 5.1.1. EFD 08-22 ECE 51220 Applied Algorithms – new graduate course
 - 5.1.2. EFD 09-22 ECE 60827 Programmable Accelerator Architectures – new graduate course
 - 5.1.3. EFD 13-22 ECE 61010 Time Domain Simulation and Optimization for Design – new graduate course
 - 5.2. Tabled EFDs withdrawn:
 - 5.2.1. EFD 31-20 MSE 33500 Materials Characterization Lab and MSE 36700 Materials Processing Lab – change in requisites (Fast Track)

5.3. Tabled EFDs remaining:

- 5.3.1. EFD 07-22 ECE 51216 Digital Systems Design Automation – new graduate course (*missing grade mapping and previous course offerings*)
- 5.3.2. EFD 10-22 ECE 50631 Fundamentals of Current Flow – new graduate course (*missing grade mapping and previous course offerings*)
- 5.3.3. EFD 11-22 ECE 50632 Introduction to Quantum Transport – new graduate course (*missing grade mapping and previous course offerings*)
- 5.3.4. EFD 12-22 ECE 50633 Boltzmann Law: Physics to Computing – new graduate course (*missing grade mapping and previous course offerings*)
- 5.3.5. EFD 14-22 ECE 50024 Machine Learning – new graduate course (*committee would like more information regarding grading curve*)

6. New Business

6.1. no new business.

- 7. Motion to adjourn was made by McMillan and seconded by Hess. The meeting adjourned at 1:09 pm.

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Meeting: #5
Date: October 4, 2021
Present: McMillan (chair), Alexeenko (ex-officio), Brophy, Comer, Fricker, Harris, Howarter, Liu, Martinez, Panchal, Rispoli, Weidner
Recorder: Vaughn

1. Meeting was called to order at 12:31 pm via Teams.
2. Motion to approve the agenda for meeting #5 was made by Comer and seconded by Weidner. Motion passed unanimously.
3. Motion to approve the minutes from meeting #4 (9/27/2021) was made by Fricker and seconded by Rispoli. Motion passed with one abstention.
4. Motion to approve the following EFD on behalf of the faculty was made by Rispoli and seconded by Liu. Motion passed unanimously.
 - 4.1. EFD 06-20 BME Grad Certificate in Regulatory Affairs and Regulatory Science for Medical Devices – new graduate concentration
5. Motion to approve the following EFD for distribution to the faculty was made by Howarter and seconded by Martinez. Motion passed unanimously.
 - 5.1. EFD 06-22 EEE 47200 Community-Based Engineering and Design – new undergraduate course
6. Old Business
 - 6.1. Previously tabled EFDs unanimously approved for distribution to faculty:
 - 6.1.1. EFD 10-22 ECE 50631 Fundamentals of Current Flow – new graduate course
 - 6.1.2. EFD 11-22 ECE 50632 Introduction to Quantum Transport – new graduate course

6.1.3. EFD 12-22 ECE 50633 Boltzmann Law: Physics to Computing – new graduate course

6.1.4. EFD 14-22 ECE 50024 Machine Learning – new graduate course

6.2. Tabled EFDs remaining:

6.2.1. EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course

6.2.2. EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course

6.2.3. EFD 01-20 GEP 29700 Research and Design for the Global Engineering Grand Challenges – new undergraduate course (*program is revising EFD*)

6.2.4. EFD 12-21 CEM Concentration in IDE MS – new graduate concentration

6.2.5. EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course

6.2.6. EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration

6.2.7. EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate

6.2.8. EFD 07-22 ECE 51216 Digital Systems Design Automation – new graduate course (*missing previous course offerings*)

7. New Business

7.1. no new business.

8. Motion to adjourn was made by Howarter and seconded by Weidner. The meeting adjourned at 1:26 pm.

Engineering Curriculum Committee Minutes

Meeting: #6
Date: October 18, 2021
Present: Marais (chair), Alexeenko (ex-officio), Brophy, Comer, Fricker, Harris, Howarter, Martinez, McMillan, Panchal, Rispoli, Weidner
Recorder: Vaughn

1. Meeting was called to order at 12:32 pm via Teams.
2. Motion to **approve the agenda for meeting #6** was made by Weidner and seconded by Howarter. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #5 (10/04/2021)** was made by Comer and seconded by Howarter. Motion passed with one abstention.
4. A discussion was held regarding adding an additional ex-officio member (associate dean of graduate programs). EFD 100-19 will be updated to propose this addition, as well as further detail voting by ECC chair.
5. Motion to **approve the following EFD** on behalf of the faculty was made by Howarter and seconded by McMillan. Motion passed unanimously.
 - 5.1. **EFD 06-22 EEE 47200 Community-Engaged Engineering & Design – new undergraduate course**
6. Motion to **review the following EFDs in bulk** was made by Marais and seconded by Harris. Motion passed unanimously.
 - 6.1. Motion to **approve the following EFDs in bulk** on behalf of the faculty was made by Comer and seconded by Martinez. Motion passed unanimously.
 - 6.1.1. **EFD 08-22 ECE 51220 Applied Algorithms – new graduate course**
 - 6.1.2. **EFD 09-22 ECE 60827 Programmable Accelerator Architectures – new graduate course**
 - 6.1.3. **EFD 10-22 ECE 50631 Fundamentals of Current Flow – new graduate course**

- 6.1.4. EFD 11-22 ECE 50632 Introduction to Quantum Transport – new graduate course
 - 6.1.5. EFD 12-22 ECE 50633 Boltzmann Law: Physics to Computing – new graduate course
 - 6.1.6. EFD 13-22 ECE 61010 Time Domain Simulation and Optimization for Design – new graduate course
 - 6.1.7. EFD 14-22 ECE 50024 Machine Learning – new graduate course
7. Motion to approve the following EFD on behalf of the faculty was made by Martinez and seconded by Howarter. Motion passed unanimously.
- 7.1. EFD 16-22 MSE 51800 Failure Analysis – new graduate course
8. Old Business
- 8.1. Tabled EFDs remaining:
 - 8.1.1. EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course (*tabled on 10/28/16 – unknown*)
 - 8.1.2. EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course (*tabled on 11/17/17 – unknown*)
 - 8.1.3. EFD 12-21 CEM Concentration in IDE MS – new graduate concentration (*tabled on 9/28/20 – waiting to address CE/CEM roles and responsibilities*)
 - 8.1.4. EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course (*tabled on 2/26/21 – missing grade mapping*)
 - 8.1.5. EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration (*tabled on 4/26/21 – missing permanent course numbers for core courses*)
 - 8.1.6. EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate (*tabled on 4/26/21 – missing permanent course numbers for core courses*)

8.1.7. **EFD 07-22 ECE 51216 Digital Systems Design Automation – new graduate course** (*tabled on 9/23/21, missing previous course offerings*)

9. New Business

9.1. no new business.

10. Motion to adjourn was made by Harris and seconded by Howarter. The meeting adjourned at 1:05 pm.

Engineering Curriculum Committee Minutes

Meeting: #7
Date: November 1, 2021
Present: Marais (chair), Alexeenko (ex-officio), Comer, Fricker, Harris, Howarter, Liu, Martinez, McMillan, Rispoli, Weidner
Recorder: Vaughn

1. Meeting was called to order at 12:32 pm via Teams.
2. Motion to **approve the agenda for meeting #7** was made by Comer and seconded by Weidner. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #6** (10/18/2021) was made by Howarter and seconded by Comer. Motion passed with one abstention.
4. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Weidner. Motion passed with 7 votes for yes and 3 for no.
 - 4.1. EFD 33-22 ECE 60146 Deep Learning – Theory and Practice of Deep Neural Networks – new graduate course
5. Motion to fast-track approve the following EFD was made by Comer and seconded by Harris. Motion passes unanimously.
 - 5.1. EFD 34-22 ECE 51032 Computational Methods for Power System Analysis – change in course number, course description, learning objectives, and prerequisites
6. Motion to **approve the following EFD on behalf of the faculty** was made by Comer and seconded by Rispoli. Motion passed unanimously.
 - 6.1. EFD 07-22 ECE 51216 Digital Systems Design Automation – new graduate course
7. Old Business
 - 7.1. Tabled EFDs remaining:

- 7.1.1. **EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course** (*tabled on 10/28/16 – unknown*)
 - 7.1.2. **EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course** (*tabled on 11/17/17 – unknown*)
 - 7.1.3. **EFD 12-21 CEM Concentration in IDE MS – new graduate concentration** (*tabled on 9/28/20 – waiting to address CE/CEM roles and responsibilities*)
 - 7.1.4. **EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course** (*tabled on 2/26/21 – missing grade mapping*)
 - 7.1.5. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master’s Program – new concentration** (*tabled on 4/26/21 – missing permanent course numbers for core courses*)
 - 7.1.6. **EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate** (*tabled on 4/26/21 – missing permanent course numbers for core courses*)
8. New Business
 - 8.1. No new business.
 9. Motion to adjourn was made by Weidner and seconded by Harris. The meeting adjourned at 1:24 pm.

Engineering Curriculum Committee Minutes

Meeting: #8
Date: November 8, 2021
Present: Marais (chair), Alexeenko (ex-officio), Brophy, Comer, Fricker, Harris, Howarter, Liu, Martinez, McMillan, Panchal, Rispoli, Weidner
Recorder: Vaughn

1. Meeting was called to order at 12:33 pm via Teams.
2. Motion to **approve the agenda for meeting #8** was made by Liu and seconded by Weidner. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #7** (11/01/2021) was made by Comer and seconded by Weidner. Motion passed with one abstention.
4. Motion to **approve the following EFD for distribution to the faculty** was made by Rispoli and seconded by Liu. Motion passed unanimously.
 - 4.1. EFD 35-22 BME Curriculum Change for the B.S. Degree in Biomedical Engineering – change in undergraduate curriculum
5. Motion to **approve the following EFD for distribution to the faculty** was made by Rispoli and seconded by Harris. Motion passed unanimously.
 - 5.1. EFD 19-22 BME 21400 Introduction to Biomechanical Analysis – new undergraduate course
6. Motion to **approve the following EFD for distribution to the faculty** was made by Rispoli and seconded by Panchal. Motion passed unanimously.
 - 6.1. EFD 22-22 BME 20700 Circuit Theory Instrumentation – new undergraduate course
7. Motion to **approve the following EFD for distribution to the faculty** was made by Rispoli and seconded by Weidner. Motion passed unanimously.
 - 7.1. EFD 23-22 BME 38000 Professionalism in BME – new undergraduate course

8. Motion to **approve the following EFD for distribution to the faculty** was made by Rispoli and seconded by Liu. Motion passed unanimously.

8.1. **EFD 24-22 BME 38900 Junior Design Lab – new undergraduate course**

9. Motion to **approve the following EFD for distribution to the faculty** was made by Rispoli and seconded by Comer. Motion passed unanimously.

9.1. **EFD 25-22 BME 36000 Intro to Bioimaging – new undergraduate course**

10. Motion to **approve the following EFD for distribution to the faculty** was made by Harris and seconded by Liu. Motion passed unanimously.

10.1. **EFD 26-22 BME 35600 Mathematical Models and Methods in Physiology – new undergraduate course**

11. Motion to **approve the following EFD for distribution to the faculty** was made by Rispoli and seconded by Comer. Motion passed unanimously.

11.1. **EFD 27-22 BME 36600 Foundations of Data Science in BME – new undergraduate course**

12. Motion to **approve the following EFD for distribution to the faculty** was made by Rispoli and seconded by Harris. Motion passed unanimously.

12.1. **EFD 28-22 BME 31400 Experimental Methods in Biomechanics – new undergraduate course**

13. Old Business

13.1. Tabled EFDs remaining:

13.1.1. **EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course** (*tabled on 10/28/16 – unknown*)

13.1.2. **EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course** (*tabled on 11/17/17 – unknown*)

13.1.3. **EFD 12-21 CEM Concentration in IDE MS – new graduate concentration** (*tabled on 9/28/20 – waiting to address CE/CEM roles and responsibilities*)

13.1.4. **EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course** (*tabled on 2/26/21 – missing grade mapping*)

13.1.5. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration** (*tabled on 4/26/21 – missing permanent course numbers for core courses*)

13.1.6. **EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate** (*tabled on 4/26/21 – missing permanent course numbers for core courses*)

14. New Business

14.1. No new business.

15. Motion to adjourn was made by Rispoli and seconded by Harris. The meeting adjourned at 1:21 pm.

Engineering Curriculum Committee Minutes

Meeting: #9
Date: November 15, 2021
Present: Marais (chair), Fricker, Harris, Hess, Martinez, Panchal, Rispoli, Weidner
Recorder: Vaughn

1. Meeting was called to order at 12:34 pm via Teams.
2. Motion to **approve the agenda for meeting #9** was made by Hess and seconded by Rispoli. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #8** (11/08/2021) was made by Weidner and seconded by Panchal. Motion passed unanimously.
4. Motion to **approve the following EFD on behalf of the faculty** was made by Rispoli and seconded by Harris. Motion passed unanimously.
 - 4.1. **EFD 33-22 ECE 60146 Deep Learning – Theory and Practice of Deep Neural Networks – new graduate course**
5. Motion to **approve the following EFD for distribution to the faculty** was made by Marais and seconded by Rispoli. Motion passed unanimously.
 - 5.1. **EFD 42-22 Composition of the Engineering Curriculum Committee – update to ECC & EFD process**
6. Motion to **fast-track approve the following EFD** was made by Marais and seconded by Rispoli. Motion passed unanimously.
 - 6.1. **EFD 41-22 AAE 25100 Introduction to Aerospace Design – change in prerequisites and minimum grade requirement**
7. Old Business
 - 7.1. Tabled EFDs remaining:
 - 7.1.1. **EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course** (*tabled on 10/28/16 – unknown*)

- 7.1.2. **EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course** *(tabled on 11/17/17 – unknown)*
 - 7.1.3. **EFD 12-21 CEM Concentration in IDE MS – new graduate concentration** *(tabled on 9/28/20 – waiting to address CE/CEM roles and responsibilities)*
 - 7.1.4. **EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course** *(tabled on 2/26/21 – missing grade mapping)*
 - 7.1.5. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration** *(tabled on 4/26/21 – missing permanent course numbers for core courses)*
 - 7.1.6. **EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate** *(tabled on 4/26/21 – missing permanent course numbers for core courses)*
8. New Business
- 8.1. No new business.
9. Motion to adjourn was made by Weidner and seconded by Hess. The meeting adjourned at 12:58 pm.

Engineering Curriculum Committee Minutes

Meeting: #10
Date: November 22, 2021
Present: Marais (chair), Comer, Fricker, Harris, Hess, Howarter, Liu, Lopez de Bertodano, Martinez, McMillan, Panchal, Rispoli, Weidner, Raghunathan (guest)
Recorder: Vaughn

1. Meeting was called to order at 12:31 pm via Teams.
2. Motion to **approve the agenda for meeting #10** was made by Harris and seconded by Fricker. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #9** (11/15/2021) was made by Harris and seconded by Panchal. Motion passed with 4 abstentions.
4. Motion to **approve the following EFDs on behalf of the faculty** was made by Marais and seconded by Rispoli. Motion passed unanimously.
 - 4.1. EFD 19-22 BME 21400 Introduction to Biomechanical Analysis – new undergraduate course
 - 4.2. EFD 22-22 BME 20700 Circuit Theory Instrumentation – new undergraduate course
 - 4.3. EFD 23-22 BME 38000 Professionalism in BME – new undergraduate course
 - 4.4. EFD 24-22 BME 38900 Junior Design Lab – new undergraduate course
 - 4.5. EFD 25-22 BME 36000 Intro to Bioimaging – new undergraduate course
 - 4.6. EFD 26-22 BME 35600 Mathematical Models and Methods in Physiology – new undergraduate course
 - 4.7. EFD 27-22 BME 36600 Foundations of Data Science in BME – new undergraduate course

- 4.8. EFD 28-22 BME 31400 Experimental Methods in Biomechanics – new undergraduate course
- 4.9. EFD 35-22 BME Curriculum Change for the B.S. Degree in Biomedical Engineering – change in undergraduate curriculum
5. Motion to approve the following EFD for distribution to the faculty was made by Comer and seconded by Weidner. Motion passed unanimously.
 - 5.1. EFD 32-22 Concentration in Microelectronics and Advanced Semiconductors – new graduate concentration
6. Motion to fast-track approve the following EFD was made by Marais and seconded by Comer. Motion passed unanimously.
 - 6.1. EFD 18-22 ENGR 39697 Industry Projects – change in repeatable status
7. Old Business
 - 7.1. Tabled EFDs remaining:
 - 7.1.1. EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course (*tabled on 10/28/16 – unknown*)
 - 7.1.2. EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course (*tabled on 11/17/17 – unknown*)
 - 7.1.3. EFD 12-21 CEM Concentration in IDE MS – new graduate concentration (*tabled on 9/28/20 – waiting to address CE/CEM roles and responsibilities*)
 - 7.1.4. EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course (*tabled on 2/26/21 – missing grade mapping*)
 - 7.1.5. EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration (*tabled on 4/26/21 – missing permanent course numbers for core courses*)
 - 7.1.6. EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate (*tabled on 4/26/21 – missing permanent course numbers for core courses*)

8. New Business

8.1. No new business.

9. Motion to adjourn was made by Rispoli and seconded by Harris. The meeting adjourned at 12:53 pm.

Engineering Curriculum Committee Minutes

Meeting: #11
Date: December 6, 2021
Present: Marais (chair), Alexeenko, Comer, Fricker, Harris, Howarter, Lopez de Bertodano, Martinez, McMillan, Rispoli, Weidner, Weinstein (guest)
Recorder: Vaughn

1. Meeting was called to order at 12:31 pm via Teams.
2. Motion to **approve the agenda for meeting #11** was made by Rispoli and seconded by Comer. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #10** (11/22/2021) was made by Weidner and seconded by Harris. Motion passed unanimously.
4. Motion to **approve the following EFDs on behalf of the faculty** was made by Comer and seconded by Rispoli. Motion passed unanimously.
 - 4.1. **EFD 32-22 Concentration in Microelectronics and Advanced Semiconductors – new graduate concentration**
5. Motion to **approve the following EFD for distribution to the faculty** was made by Rispoli and seconded by Comer. Motion passed unanimously.
 - 5.1. **EFD 50-22 BME 51500 Practical MRI and Applications – new graduate course**
6. Motion to **consider the following EFD for fast-track review** was made by Marais and seconded by Rispoli. Motion passed unanimously.
 - 6.1. **EFD 51-22 BME Online Masters in Biomedical Engineering – adding online delivery to existing degree**
7. Motion to **fast-track approve the following EFD** was made by Rispoli and seconded by Weidner. Motion passed unanimously.
 - 7.1. **EFD 51-22 BME Online Masters in Biomedical Engineering – adding online delivery to existing degree**

8. Motion to **fast-track approve the following EFD** was made by Rispoli and seconded by Comer. Motion passed unanimously.

8.1. **EFD 52-22 BME 20500 Biomolecular and Cellular Systems Laboratory – change in requisites and offering structure**

9. Motion to **fast-track approve the following EFD** was made by Rispoli and seconded by Weidner. Motion passed unanimously.

9.1. **EFD 53-22 BME 20600 Biotransport Laboratory – change in requisites and offering structure**

10. Motion to **fast-track approve the following EFD** was made by Rispoli and seconded by Comer. Motion passed unanimously.

10.1. **EFD 54-22 BME 30200 Bioelectricity – change in requisites**

11. Motion to **fast-track approve the following EFD** was made by Rispoli and seconded by Lopez de Bertodano. Motion passed unanimously.

11.1. **EFD 55-22 BME 39000 Professional Development and Design in Biomedical Engineering – change in requisites**

12. Motion to **fast-track approve the following EFD** was made by Rispoli and seconded by Fricker. Motion passed unanimously.

12.1. **EFD 56-22 BME 48901 Senior Design Project – change in requisites**

13. Old Business

13.1. Tabled EFDs remaining:

13.1.1. **EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course** (*tabled on 10/28/16 – missing previous offerings and grading*)

13.1.2. **EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course** (*tabled on 11/17/17 – missing previous offerings and grading*)

13.1.3. **EFD 12-21 CEM Concentration in IDE MS – new graduate concentration**
(tabled on 9/28/20 – waiting to address CE/CEM roles and responsibilities)

13.1.4. **EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course**
(tabled on 2/26/21 – missing grade mapping)

13.1.5. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration**
(tabled on 4/26/21 – missing permanent course numbers for core courses)

13.1.6. **EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate**
(tabled on 4/26/21 – missing permanent course numbers for core courses)

14. New Business

14.1. No new business.

15. Motion to adjourn was made by Weidner and seconded by Harris. The meeting adjourned at 12:56 pm.

Engineering Curriculum Committee Minutes

Meeting: #12
Date: January 10, 2022
Present: Marais (chair), Comer, Harris, Howarter, Kvam, Lopez de Bertodano, Martinez, McMillan, Rispoli, Wassgren, Weidner, Kulkarni (guest)
Recorder: Vaughn

1. Meeting was called to order at 12:32 pm via Teams.
2. Motion to **approve the agenda for meeting #12** was made by Comer and seconded by Weidner. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #11** (12/06/2021) was made by Rispoli and seconded by Howarter. Motion passed with three abstentions.
4. Motion to **approve the following EFD on behalf of the faculty** was made by Rispoli and seconded by Comer. Motion passed unanimously.
 - 4.1. EFD 50-22 BME 51500 Practical MRI and Applications – new graduate course
5. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Harris. Motion passed unanimously.
 - 5.1. EFD 36-22 ECE Minor in Artificial Intelligence and Machine Learning – new undergraduate minor
6. Motion to **approve the following EFD for distribution to the faculty** was made by Wassgren and seconded by Weidner. Motion passed unanimously.
 - 6.1. EFD 60-22 ME 30900 Fluid Mechanics – deletion of course
7. Motion to **fast-track approve the following EFD** was made by Wassgren and seconded by Weidner. Motion passed unanimously.
 - 7.1. EFD 57-22 ME 20000 Thermodynamics 1 – change in prerequisites
8. Motion to **fast-track approve the following EFD** was made by Wassgren and seconded by Comer. EFD was tabled to await clarification of UC courses.

- 8.1. **58-22 ME 26300 Introduction to Mechanical Engineering Design, Innovation, and Entrepreneurship – change in prerequisites**
9. Motion to **fast-track approve the following EFD** was made by Wassgren and seconded by Comer. Motion passed unanimously.
 - 9.1. **EFD 59-22 ME 27000 Basic Mechanics – change in prerequisites**
10. An open meeting of the ECC was scheduled for **Monday, January 31** to discuss flagged EFDs for new CEM courses
11. Motion to **withdraw the following EFD** was made by Marais and seconded by Comer. Motion passed with two abstentions.
 - 11.1. **EFD 42-22 Composition of the Engineering Curriculum Committee – update to ECC and EFD process**
12. Old Business
 - 12.1. Tabled EFDs remaining:
 - 12.1.1. **EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course** (*tabled on 10/28/16 – missing previous offerings and grading*)
 - 12.1.2. **EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course** (*tabled on 11/17/17 – missing previous offerings and grading*)
 - 12.1.3. **EFD 12-21 CEM Concentration in IDE MS – new graduate concentration** (*tabled on 9/28/20 – waiting to address CE/CEM roles and responsibilities*)
 - 12.1.4. **EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course** (*tabled on 2/26/21 – missing grade mapping*)
 - 12.1.5. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration** (*tabled on 4/26/21 – missing permanent course numbers for core courses*)

12.1.6. **EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate** (*tabled on 4/26/21 – missing permanent course numbers for core courses*)

13. New Business

13.1. No new business.

14. Motion to adjourn was made by Comer and seconded by Weidner. The meeting adjourned at 1:25 pm.

Engineering Curriculum Committee Minutes

Meeting: #13
Date: January 24, 2022
Present: Marais (chair), Alexeenko (ex-officio), Comer, Harris, Howarter, Hynes, Kvam, Lopez de Bertodano, Martinez, McMillan, Rispoli, Troy, Wassgren, Weidner
Recorder: Vaughn

1. Meeting was called to order at 12:31 pm via Teams.
2. Motion to **approve the agenda for meeting #13** was made by Comer and seconded by Weidner. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #12 (01/10/22)** was made by Rispoli and seconded by Weidner. Motion passed with one abstention.
4. Motion to **approve the following EFD on behalf of the faculty** was made by Comer and seconded by Martinez. Motion passed unanimously.
 - 4.1. **EFD 36-22 ECE Minor in Artificial Intelligence and Machine Learning – new undergraduate minor**
5. Motion to **approve the following EFD on behalf of the faculty** was made by Wassgren and seconded by Comer. Motion passed unanimously.
 - 5.1. **EFD 60-22 ME 30900 Fluid Mechanics – deletion of course**
6. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Martinez. Motion passed unanimously.
 - 6.1. **EFD 37-22 ECE Electric Power and Energy Systems Concentration – new undergraduate concentration**
7. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Martinez. Motion passed unanimously.
 - 7.1. **EFD 38-22 ECE Automatic Control Concentration – new undergraduate concentration**

8. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Weidner. EFD was tabled.

8.1. **EFD 39-22 ECE Artificial Intelligence and Machine Learning Concentration – new undergraduate concentration**

9. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Rispoli. Motion passed unanimously.

9.1. **EFD 40-22 ECE Quantum Technology Concentration – new undergraduate concentration**

10. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Harris. EFD was tabled.

10.1. **EFD 43-22 ECE Computer Systems Concentration – new undergraduate concentration**

11. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Martinez. EFD was tabled.

11.1. **EFD 44-22 ECE Software Engineering Concentration – new undergraduate concentration**

12. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Weidner. EFD was tabled.

12.1. **EFD 61-22 ECE Artificial Intelligence and Machine Learning Concentration for BSCmpE – new undergraduate concentration**

13. Motion to **consider the following EFD for fast-track review** was made by Marais and seconded by Wassgren. Motion passed unanimously.

13.1. **EFD 58-22 ME 26300 Introduction to Mechanical Engineering Design, Innovation, and Entrepreneurship – change in prerequisites**

14. Old Business

14.1. Tabled EFDs remaining:

- 14.1.1. **EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course** (*tabled on 10/28/16 – missing previous offerings and grading*)
- 14.1.2. **EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course** (*tabled on 11/17/17 – missing previous offerings and grading*)
- 14.1.3. **EFD 12-21 CEM Concentration in IDE MS – new graduate concentration** (*tabled on 9/28/20 – waiting to address CE/CEM roles and responsibilities*)
- 14.1.4. **EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course** (*tabled on 2/26/21 – missing grade mapping*)
- 14.1.5. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration** (*tabled on 4/26/21 – missing permanent course numbers for core courses*)
- 14.1.6. **EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate** (*tabled on 4/26/21 – missing permanent course numbers for core courses*)

15. New Business

15.1. No new business.

16. Motion to adjourn was made by Wassgren and seconded by Harris. The meeting adjourned at 1:25 pm.

Engineering Curriculum Committee Minutes

Meeting: #14
Date: January 31, 2022
Present: Marais (chair), Comer, Harris, Howarter, Hynes, Kvam, Lopez de Bertodano, Martinez, McMillan, Rispoli, Troy, Wassgren, Weidner
Recorder: Vaughn

OPEN MEETING

Additional faculty present: *Bobet, Hastak, Irfanoglu, Iseley*

1. Open meeting was called to order at 12:34 pm via Zoom.
2. The following EFDs were introduced by Weidner for discussion:
 - 2.1. EFD 88-21 CEM 58800 Pipeline Condition Assessment and Integrity Management – new graduate course
 - 2.2. EFD 89-21 CEM 58700 Underground Infrastructure Asset Management – new graduate course
 - 2.3. EFD 90-21 CEM 58600 Development of Underground Space – new graduate course
 - 2.4. EFD91-21 CEM 58500 Temporary Structures – new graduate course
3. Concerns were raised that the new CEM courses overlap with courses already offered by CE.
4. Concerns were raised with the CEM courses not requiring prerequisites.
5. Concerns were raised that the course descriptions and EFDs do not appropriately reflect the content of the courses.
6. A suggestion was made that the CEM courses be cross-listed with CE courses.
7. A proposal was made for leaders from CE and CEM will meet offline to further discuss collaboration opportunities.

8. Open meeting was adjourned at 1:26 pm.

CLOSED MEETING

9. An online poll will be posted to approve the following EFDs **for distribution to the faculty.**

9.1. **EFD 39-22 ECE Artificial Intelligence and Machine Learning Concentration for BSEE – new undergraduate concentration** [poll results approve=8, deny=0]

9.2. **EFD 43-22 ECE Computer Systems Concentration – new undergraduate concentration** [poll results approve=8, deny=0]

9.3. **EFD 44-22 ECE Software Engineering Concentration – new undergraduate concentration** [poll results approve=7, deny=1]

9.4. **EFD 61-22 ECE Artificial Intelligence and Machine Learning Concentration for BSCmpE** [poll results approve=8, deny=0]

9.5. **EFD 62-22 ME 32301 Mechanics of Materials Laboratory – new undergraduate course** [poll results approve=8, deny=0]

10. Old Business

10.1. Tabled EFDs remaining:

10.1.1. **EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course** (*tabled on 10/28/16 – missing previous offerings and grading*)

10.1.2. **EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course** (*tabled on 11/17/17 – missing previous offerings and grading*)

10.1.3. **EFD 12-21 CEM Concentration in IDE MS – new graduate concentration** (*tabled on 9/28/20 – waiting to address CE/CEM roles and responsibilities*)

10.1.4. **EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course** (*tabled on 2/26/21 – missing grade mapping*)

10.1.5. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration** (*tabled on 4/26/21 – missing permanent course numbers for core courses*)

10.1.6. **EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate** (*tabled on 4/26/21 – missing permanent course numbers for core courses*)

11. New Business

11.1. No new business.

12. Motion to adjourn was made by Marais and seconded by Weidner. The meeting adjourned at 1:30 pm.

Engineering Curriculum Committee Minutes

Meeting: #15
Date: February 7, 2022
Present: Marais (chair), Alexeenko (ex-officio), Comer, Harris, Howarter, Hynes, Kvam, Lopez de Bertodano, Martinez, McMillan, Rispoli, Troy, Wassgren, Weidner
Recorder: Vaughn

1. Meeting was called to order at 12:31 pm via Teams.
2. Motion to **approve the agenda for meeting #15** was made by Comer and seconded by Rispoli. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #13 (01/24/22)** was made by Wassgren and seconded by Weidner. Motion passed unanimously.
4. Motion to **approve the minutes from meeting #14 (01/31/22)** was made by Weidner and seconded by Rispoli. Motion passed unanimously.
5. Motion to **fast-track approve the following EFD** was made by Comer and seconded by Rispoli. Motion passed unanimously.
 - 5.1. **EFD 47-22 ECE 42300 Electromechanical Motion Control – change in course number and prerequisites**
6. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Weidner. Motion passed unanimously.
 - 6.1. **EFD 45-22 ECE 36900 Discrete Math for Computer Engineering – change in course number and prerequisites**
7. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Weidner. Motion passed unanimously.
 - 7.1. **EFD 48-22 ECE 43300 Power Electronics – change in course number and prerequisites**
8. Old Business

8.1. Tabled EFDs remaining:

- 8.1.1. **EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications** – new graduate course (*tabled on 10/28/16 – missing previous offerings and grading*)
- 8.1.2. **EFD 18-18 ECE 60645 High Speed Semiconductor Devices** – new graduate course (*tabled on 11/17/17 – missing previous offerings and grading*)
- 8.1.3. **EFD 12-21 CEM Concentration in IDE MS** – new graduate concentration (*tabled on 09/28/20 – waiting to address CE/CEM roles and responsibilities*)
- 8.1.4. **EFD 88-21 CEM 58800 Pipeline Condition Assessment and Integrity** – new graduate course (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 8.1.5. **EFD 89-21 CEM 58700 Underground Infrastructure Asset Management** – new graduate course (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 8.1.6. **EFD 90-21 CEM 58600 Development of Underground Space** – new graduate course (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 8.1.7. **EFD 91-21 CEM 58500 Temporary Structures** – new graduate course (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 8.1.8. **EFD 51-21 CHE 56300 Advanced Solar Energy Conversion** – new graduate course (*tabled on 02/26/21 – missing grade mapping*)
- 8.1.9. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program** – new concentration (*tabled on 04/26/21 – missing permanent course numbers for core courses*)
- 8.1.10. **EFD 77-21 CHE Grad Certificate in Healthcare Technology** – new graduate certificate (*tabled on 04/26/21 – missing permanent course numbers for core courses*)

9. New Business

9.1. No new business.

10. Motion to adjourn was made by Weidner and seconded by Martinez. The meeting adjourned at 1:07 pm.

Engineering Curriculum Committee Minutes

Meeting: #16
Date: February 14, 2022
Present: Marais (chair), Alexeenko (ex-officio), Comer, Harris, Howarter, Hynes, Kvam, Lopez de Bertodano, Martinez, McMillan, Rispoli, Troy, Wassgren, Weidner
Recorder: Vaughn

1. Meeting was called to order at 12:32 pm via Teams.
2. Motion to **approve the agenda for meeting #16** was made by Weidner and seconded by Wassgren. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #15 (02/07/22)** was made by Comer and seconded by Rispoli. Motion passed unanimously.
4. Motion to **approve the following EFDs on behalf of the faculty** was made by Comer and seconded by Weidner. Motion passed unanimously.
 - 4.1. EFD 37-22 ECE Electrical Power and Energy Systems Concentration – new undergraduate concentration
 - 4.2. EFD 38-22 ECE Automatic Control Concentration – new undergraduate concentration
 - 4.3. EFD 39-22 ECE Artificial Intelligence and Machine Learning Concentration for BSEE – new undergraduate concentration
 - 4.4. EFD 40-22 ECE Quantum Technology Concentration – new undergraduate concentration
 - 4.5. EFD 43-22 ECE Computer Systems Concentration – new undergraduate concentration
 - 4.6. EFD 44-22 ECE Software Engineering Concentration – new undergraduate concentration

- 4.7. **EFD 61-22 ECE Artificial Intelligence and Machine Learning Concentration for BSCmpE – new undergraduate concentration**
5. Motion to **approve the following EFD on behalf of the faculty** was made by Wassgren and seconded by Comer. Motion passed unanimously.
 - 5.1. **EFD 62-22 ME 32301 Mechanics of Materials Laboratory – new undergraduate course**
6. Motion to **fast-track approve the following EFD** was made by Harris and seconded by Hynes. Motion passed unanimously.
 - 6.1. **EFD 64-22 CHE 20500 Chemical Engineering Calculations – change in prerequisites**
7. Motion to **fast-track approve the following EFD** was made by Harris and seconded by Comer. Motion passed unanimously.
 - 7.1. **EFD 65-22 CHE 32000 Statistical Modeling and Quality Enhancement – change in prerequisites**
8. Motion to **fast-track approve the following EFD** was made by Harris and seconded by Rispoli. Motion passed unanimously.
 - 8.1. **EFD 66-22 CHE 30000 Chemical Engineering Seminar – change in prerequisites**
9. Motion to **fast-track approve the following EFD** was made by Harris and seconded by Comer. Motion passed unanimously.
 - 9.1. **EFD 67-22 CHE 40000 Chemical Engineering Seminar – change in prerequisites**
10. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Rispoli. Motion passed unanimously.
 - 10.1. **EFD 46-22 ECE 46100 Software Engineering – change in course level, number, prerequisites, and learning outcomes**
11. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Martinez. Motion passed unanimously.

11.1. EFD 49-22 ECE Software Engineering Tools – change in course number, prerequisites, description, and learning outcomes

12. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Martinez. Motion passes unanimously.

12.1. EFD 70-22 ECE Microelectronics and Semiconductors Minor – new undergraduate minor

13. Old Business

13.1. Tabled EFDs remaining:

13.1.1. EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course (*tabled on 10/28/16 – missing previous offerings and grading*)

13.1.2. EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course (*tabled on 11/17/17 – missing previous offerings and grading*)

13.1.3. EFD 12-21 CEM Concentration in IDE MS – new graduate concentration (*tabled on 09/28/20 – waiting to address CE/CEM roles and responsibilities*)

13.1.4. EFD 88-21 CEM 58800 Pipeline Condition Assessment and Integrity – new graduate course (*tabled on 01/31/22 – pending CE/CEM offline discussion*)

13.1.5. EFD 89-21 CEM 58700 Underground Infrastructure Asset Management – new graduate course (*tabled on 01/31/22 – pending CE/CEM offline discussion*)

13.1.6. EFD 90-21 CEM 58600 Development of Underground Space – new graduate course (*tabled on 01/31/22 – pending CE/CEM offline discussion*)

13.1.7. EFD 91-21 CEM 58500 Temporary Structures – new graduate course (*tabled on 01/31/22 – pending CE/CEM offline discussion*)

13.1.8. EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course (*tabled on 02/26/21 – missing grade mapping*)

13.1.9. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration** (*tabled on 04/26/21 – missing permanent course numbers for core courses*)

13.1.10. **EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate** (*tabled on 04/26/21 – missing permanent course numbers for core courses*)

14. New Business

14.1. No new business.

15. Motion to adjourn was made by Harris and seconded by Hynes. The meeting adjourned at 1:03 pm.

Engineering Curriculum Committee Minutes

Meeting: #17
Date: February 28, 2022
Present: Comer (chair), Alexeenko (ex-officio), Harris, Howarter, Hynes, Kvam, Martinez, McMillan, Rispoli, Troy, Wassgren, Weidner
Recorder: Vaughn

1. Meeting was called to order at 12:33 pm via Teams.
2. Motion to **approve the agenda for meeting #17** was made by Harris and seconded by McMillan. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #16 (02/14/22)** was made by Wassgren and seconded by Kvam. Motion passed unanimously.
4. ECC voted virtually on Monday, February 21, 2022 to **approve the following EFDs on behalf of the faculty:**
 - 4.1. EFD 45-22 ECE 36900 Discrete Math for Computer Engineering – change in course number and prerequisites
 - 4.2. EFD 48-22 ECE 43300 Power Electronics – change in course number and prerequisites
5. Motion to **approve the following EFDs on behalf of the faculty** was made by Comer and seconded by Rispoli. Motion passed unanimously.
 - 5.1. EFD 46-22 ECE 46100 Software Engineering – change in course level, number, prerequisites, and learning outcomes
 - 5.2. EFD 49-22 ECE 36400 Software Engineering Tools – change in course number, prerequisites, description, and learning outcomes
 - 5.3. EFD 70-22 ECE Microelectronics and Semiconductors Minor – new undergraduate minor
6. Motion to **fast-track approve the following EFD** was made by Comer and seconded by Harris. Motion passed unanimously.

- 6.1. EFD 46-22 ECE 46100 Software Engineering – revised prerequisite
7. Motion to fast-track approve the following EFD was made by Comer and seconded by Howarter. Motion passed unanimously.
 - 7.1. EFD 73-22 ECE 43800 Digital Signal Processing and Applications – change in prerequisites
8. Motion to fast-track approve the following EFD was made by Kvam and seconded by Howarter. Motion passed unanimously.
 - 8.1. EFD 68-22 MSE 38200 Mechanical Response of Materials – change in prerequisites
9. Motion to fast-track approve the following EFD was made by Kvam and seconded by Howarter. Motion passed unanimously.
 - 9.1. EFD 69-22 MSE 500-level Technical Electives – change in prerequisites
10. Motion to approve the following EFD for distribution to the faculty was made by McMillan and seconded by Hynes. EFD was tabled to request clarification of credit hours and course time expectations.
 - 10.1. EFD 72-22 ABE 44400 Design and Advanced Processes and Internal Combustion Engines – new undergraduate course
11. Motion to approve the following EFDs for distribution to the faculty was made by McMillan and seconded by Kvam. Motion passed unanimously.
 - 11.1. EFD 76-22 ABE 50501 Particle, Powder, and Compact Characterization – new graduate course
 - 11.2. EFD 77-22 ABE 50502 Particle, Powder, and Compact Characterization Laboratory – new graduate course
12. Motion to approve the following EFD for distribution to the faculty was made by Comer and seconded by Howarter. Motion passed unanimously.

12.1. EFD 63-22 ECE 40875 Data Mining Concepts and Techniques – new undergraduate course

13. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Howarter. Motion passed unanimously.

13.1. EFD 71-22 ECE Wireless and Optical Engineering Concentration – new undergraduate concentration

14. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Rispoli. EFD was tabled to request syllabus for course.

14.1. EFD 74-22 ECE 46300 Introduction to Computer Communication Networks – change in course number, prerequisites, description, learning outcomes, and credits

15. Old Business

15.1. Tabled EFDs remaining:

15.1.1. EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course (*tabled on 10/28/16 – missing previous offerings and grading*)

15.1.2. EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course (*tabled on 11/17/17 – missing previous offerings and grading*)

15.1.3. EFD 12-21 CEM Concentration in IDE MS – new graduate concentration (*tabled on 09/28/20 – waiting to address CE/CEM roles and responsibilities*)

15.1.4. EFD 88-21 CEM 58800 Pipeline Condition Assessment and Integrity – new graduate course (*tabled on 01/31/22 – pending CE/CEM offline discussion*)

15.1.5. EFD 89-21 CEM 58700 Underground Infrastructure Asset Management – new graduate course (*tabled on 01/31/22 – pending CE/CEM offline discussion*)

15.1.6. **EFD 90-21 CEM 58600 Development of Underground Space** – new graduate course *(tabled on 01/31/22 – pending CE/CEM offline discussion)*

15.1.7. **EFD 91-21 CEM 58500 Temporary Structures** – new graduate course *(tabled on 01/31/22 – pending CE/CEM offline discussion)*

15.1.8. **EFD 51-21 CHE 56300 Advanced Solar Energy Conversion** – new graduate course *(tabled on 02/26/21 – missing grade mapping)*

15.1.9. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program** – new concentration *(tabled on 04/26/21 – missing permanent course numbers for core courses)*

15.1.10. **EFD 77-21 CHE Grad Certificate in Healthcare Technology** – new graduate certificate *(tabled on 04/26/21 – missing permanent course numbers for core courses)*

16. New Business

16.1. No new business.

17. Motion to adjourn was made by McMillan and seconded by Howarter. The meeting adjourned at 1:10 pm.

Engineering Curriculum Committee Minutes

Meeting: #18
Date: March 7, 2022
Present: Marais (chair), Alexeenko (ex-officio), Comer, Harris, Howarter, Kvam, Lopez de Bertodano, Martinez, McMillan, Rispoli, Troy, Wassgren, Weidner
Recorder: Marais

1. Meeting was called to order at 12:33 pm via Teams.
2. Motion to **approve the agenda for meeting #18** was made by Harris and seconded by Weidner. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #17 (02/28/22)** was made by Comer and seconded by Martinez. Motion passed with one abstention.
4. Motion to **fast-track approve the following EFD** was made by Comer and seconded by Rispoli. Motion passed unanimously.
 - 4.1. EFD 75-22 ECE 44000 Transmission of Information – change in prerequisites
5. Motion to **approve the following EFD for distribution to the faculty** was made by Comer and seconded by Rispoli. Motion passed unanimously.
 - 5.1. EFD 74-22 ECE 46300 Introduction to Computer Communication Networks – change in course number, prerequisites, description, learning outcomes, and credits
6. Motion to **approve the following EFDs for distribution to the faculty** was made by Comer and seconded by Rispoli. Motion passed unanimously.
 - 6.1. EFD 78-22 ECE Microelectronics and Semiconductors Concentration for BSEE – new undergraduate concentration
 - 6.2. EFD 79-22 ECE Microelectronics and Semiconductors Concentration for BSCmpE – new undergraduate concentration
7. Motion to **approve the following EFD for distribution to the faculty** was made by Wassgren and seconded by Martinez. Motion passed unanimously.

- 7.1. **EFD 81-22 ME BS in Mechanical Engineering – change in degree requirements**
8. The following EFD was brought up from the table and **approved for distribution to the faculty**. Motion passed unanimously.
 - 8.1. **EFD 72-22 ABE 44400 Design and Advanced Manufacturing Processes for Internal Combustion Engines – new undergraduate course**
9. Old Business
 - 9.1. Tabled EFDs remaining:
 - 9.1.1. **EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course** (*tabled on 10/28/16 – missing previous offerings and grading*)
 - 9.1.2. **EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course** (*tabled on 11/17/17 – missing previous offerings and grading*)
 - 9.1.3. **EFD 12-21 CEM Concentration in IDE MS – new graduate concentration** (*tabled on 09/28/20 – waiting to address CE/CEM roles and responsibilities*)
 - 9.1.4. **EFD 88-21 CEM 58800 Pipeline Condition Assessment and Integrity – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
 - 9.1.5. **EFD 89-21 CEM 58700 Underground Infrastructure Asset Management – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
 - 9.1.6. **EFD 90-21 CEM 58600 Development of Underground Space – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
 - 9.1.7. **EFD 91-21 CEM 58500 Temporary Structures – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
 - 9.1.8. **EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course** (*tabled on 02/26/21 – missing grade mapping*)

9.1.9. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration** (*tabled on 04/26/21 – missing permanent course numbers for core courses*)

9.1.10. **EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate** (*tabled on 04/26/21 – missing permanent course numbers for core courses*)

10. New Business

10.1. No new business.

11. Motion to adjourn was made by McMillan and seconded by Weidner. The meeting adjourned at 1:11 pm.

Engineering Curriculum Committee Minutes

Meeting: #19
Date: March 21, 2022
Present: Marais (chair), Alexeenko (ex-officio), Comer, Harris, Howarter, Kvam, Lopez de Bertodano, Rispoli, Wassgren, Weidner
Recorder: Marais

1. Meeting was called to order at 12:31 pm via Teams.
2. Motion to **approve the agenda for meeting #19** was made by Harris and seconded by Rispoli. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #18 (03/07/22)** was made by Weidner and seconded by Harris. Motion passed unanimously.
4. Motion to **approve the following EFD on behalf of the faculty** was made by Marais and seconded by Comer. Motion passed unanimously.
 - 4.1. EFD 76-22 ABE 50501 Particle, Powder, and Compact Characterization – new graduate course
5. Motion to **approve the following EFD on behalf of the faculty** was made by Marais and seconded by Wassgren. Motion passed unanimously.
 - 5.1. EFD 77-22 ABE 50502 Particle, Powder, and Compact Characterization Laboratory – new graduate course
6. Motion to **approve the following EFDs on behalf of the faculty** was made by Comer and seconded by Harris. Motion passed unanimously.
 - 6.1. EFD 63-22 ECE 40875 Data Mining Basic Concepts and Techniques – new undergraduate course
 - 6.2. EFD 71-22 ECE Wireless and Optical Engineering Concentration – new undergraduate concentration
7. Motion to **approve the following EFD for distribution to the faculty** was made by Rispoli and seconded by Comer. Motion passed unanimously.

- 7.1. **EFD 15-22 BME 58100 Bio-Micro-Electro-Mechanical Systems – change in course title and description**
8. The following EFDs were tabled due to missing syllabi, grade scheme, and types:
 - 8.1. **EFD 90-22 ECE 60270 Structure and Dynamics of Large-Scale – new graduate course**
 - 8.2. **EFD 91-22 ECE 60431 Fiber Optics Communications – new graduate course**
 - 8.3. **EFD 92-22 ECE 60432 Nanophotonics Modeling – new graduate course**
9. Motion to approve the following EFD for distribution to the faculty was made by Wassgren and seconded by Rispoli. Motion passed unanimously.
 - 9.1. **EFD 93-22 ME Online Master’s Degree Thesis – adding thesis option**
10. The following EFD was tabled to request clarification:
 - 10.1. **EFD 94-22 ME Micro Masters in Mechanical Engineering – credit revision**
11. Old Business
 - 11.1. Tabled EFDs remaining:
 - 11.1.1. **EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course** (*tabled on 10/28/16 – missing previous offerings and grading*)
 - 11.1.2. **EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course** (*tabled on 11/17/17 – missing previous offerings and grading*)
 - 11.1.3. **EFD 12-21 CEM Concentration in IDE MS – new graduate concentration** (*tabled on 09/28/20 – waiting to address CE/CEM roles and responsibilities*)
 - 11.1.4. **EFD 88-21 CEM 58800 Pipeline Condition Assessment and Integrity – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)

- 11.1.5. **EFD 89-21 CEM 58700 Underground Infrastructure Asset Management – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 11.1.6. **EFD 90-21 CEM 58600 Development of Underground Space – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 11.1.7. **EFD 91-21 CEM 58500 Temporary Structures – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 11.1.8. **EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course** (*tabled on 02/26/21 – missing grade mapping*)
- 11.1.9. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master’s Program – new concentration** (*tabled on 04/26/21 – missing permanent course numbers for core courses*)
- 11.1.10. **EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate** (*tabled on 04/26/21 – missing permanent course numbers for core courses*)

12. New Business

12.1. No new business.

13. Motion to adjourn was made by Rispoli and seconded by Weidner. The meeting adjourned at 12:55 pm.

Engineering Curriculum Committee Minutes

Meeting: #20
Date: March 28, 2022
Present: Marais (chair), Alexeenko (ex-officio), Comer, Harris, Howarter, Hynes, Kvam, Lopez de Bertodano, Martinez, McMillan, Rispoli, Troy, Wassgren, Weidner
Recorder: Vaughn

1. Meeting was called to order at 12:31 pm via Teams.
2. Motion to **approve the agenda for meeting #20** was made by Weidner and seconded by Kvam. Motion passed unanimously.
3. Motion to **approve the following EFDs on behalf of the faculty** was made by Kvam and seconded by Wassgren. Motion passed unanimously.
 - 3.1. EFD 72-22 ABE 44400 Design and Advanced Manufacturing Processes for Internal Combustion Engines – new undergraduate course
 - 3.2. EFD 74-22 ECE 46300 Introduction to Computer Communication Networks – change in course number, prerequisites, description, learning outcomes, and credits
 - 3.3. EFD 78-22 ECE Microelectronics and Semiconductors Concentration for BSEE – new undergraduate concentration
 - 3.4. EFD 79-22 ECE Microelectronics and Semiconductors Concentration for BSCmpE – new undergraduate concentration
 - 3.5. EFD 81-22 ME BS in Mechanical Engineering – change in degree requirements
4. Motion to **approve the following EFDs for distribution to the faculty** was made by Wassgren and seconded by Martinez. Motion passed unanimously.
 - 4.1. EFD 95-22 ME Biomedical Engineering Concentration – expiration of concentration
 - 4.2. EFD 96-22 ME Int Ecog Sci & Eng Concentration – expiration of concentration

5. The following EFDs were **tabled** due to missing grade schemes:
 - 5.1. EFD 82-22 VIP 17910 First-Year Participation in VIP Limited – new undergraduate course
 - 5.2. EFD 83-22 VIP 27910 Sophomore Participation in VIP Limited – new undergraduate course
 - 5.3. EFD 84-22 VIP 37910 Junior Participation in VIP Limited – new undergraduate course
 - 5.4. EFD 85-22 VIP 47910 Senior Participation in VIP Limited – new undergraduate course
 - 5.5. EFD 86-22 VIP 27930 Sophomore Participation in VIP Extended – new undergraduate course
6. The following EFDs were brought up from the table and **approved for distribution to the faculty**:
 - 6.1. EFD 90-22 ECE 60270 Structure and Dynamics of Large-Scale – new graduate course
 - 6.2. EFD 91-22 ECE 60431 Fiber Optics Communications – new graduate course
 - 6.3. EFD 92-22 ECE 60432 Nanophotonics Modeling – new graduate course
 - 6.4. EFD 94-22 ME Micro Masters in Mechanical Engineering – credit revision
7. Old Business
 - 7.1. Tabled EFDs remaining:
 - 7.1.1. EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course (*tabled on 10/28/16 – missing previous offerings and grading*)

- 7.1.2. **EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course** (*tabled on 11/17/17 – missing previous offerings and grading*)
 - 7.1.3. **EFD 12-21 CEM Concentration in IDE MS – new graduate concentration** (*tabled on 09/28/20 – waiting to address CE/CEM roles and responsibilities*)
 - 7.1.4. **EFD 88-21 CEM 58800 Pipeline Condition Assessment and Integrity – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
 - 7.1.5. **EFD 89-21 CEM 58700 Underground Infrastructure Asset Management – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
 - 7.1.6. **EFD 90-21 CEM 58600 Development of Underground Space – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
 - 7.1.7. **EFD 91-21 CEM 58500 Temporary Structures – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
 - 7.1.8. **EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course** (*tabled on 02/26/21 – missing grade mapping*)
 - 7.1.9. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master’s Program – new concentration** (*tabled on 04/26/21 – missing permanent course numbers for core courses*)
 - 7.1.10. **EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate** (*tabled on 04/26/21 – missing permanent course numbers for core courses*)
8. New Business
- 8.1. No new business.
9. Motion to adjourn was made by Comer and seconded by Martinez. The meeting adjourned at 1:06 pm.

Engineering Curriculum Committee Minutes

Meeting: #21
Date: April 4, 2022
Present: Marais (chair), Weinstein (ex-officio), Harris, Howarter, Hynes, Kvam, Martinez, McMillan, Rispoli, Troy, Wassgren, Weidner, Mou (guest)
Recorder: Vaughn

1. Meeting was called to order at 12:33 pm via Teams.
2. Motion to **approve the agenda for meeting #21** was made by Howarter and seconded by Wassgren. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #19** (03/21/22) was made by Rispoli and seconded by Harris. Motion passed unanimously.
4. Motion to **approve the minutes from meeting #20** (03/28/22) was made by Rispoli and seconded by Martinez. Motion passed unanimously.
5. Motion to **fast-track approve the following EFD** was made by Wassgren and seconded by Martinez. Motion passed unanimously.
 - 5.1. **EFD 99-22 ME 58100 Numerical Methods in Mechanical Engineering – change in prerequisites**
6. Motion to **approve the following EFDs for distribution to the faculty** was made by Marais and seconded by Weidner. Motion passed unanimously.
 - 6.1. **EFD 100-22 AAE Hypersonics Graduate Certificate – new graduate certificate**
7. Motion to **approve the following EFDs for distribution to the faculty** was made by Weinstein and seconded by Kvam. Motion passed unanimously.
 - 7.1. **EFD 01-23 IDE Major in Autonomy – new graduate major**
8. Motion to **approve the following EFDs for distribution to the faculty** was made by Weinstein and seconded by Harris. Motion passed unanimously.
 - 8.1. **EFD 02-23 IDE Major in Robotics – new graduate major**

9. Motion to **approve the following EFDs for distribution to the faculty** was made by Weinstein and seconded by Weidner. Motion passed unanimously.

9.1. EFD 03-23 IDE Major in Internet-of-Things – new graduate major

10. Old Business

10.1. Tabled EFDs remaining:

10.1.1. EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course (tabled on 10/28/16 – missing previous offerings and grading)

10.1.2. EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course (tabled on 11/17/17 – missing previous offerings and grading)

10.1.3. EFD 12-21 CEM Concentration in IDE MS – new graduate concentration (tabled on 09/28/20 – waiting to address CE/CEM roles and responsibilities)

10.1.4. EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course (tabled on 02/26/21 – missing grade mapping)

10.1.5. EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration (tabled on 04/26/21 – missing permanent course numbers for core courses)

10.1.6. EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate (tabled on 04/26/21 – missing permanent course numbers for core courses)

10.1.7. EFD 88-21 CEM 58800 Pipeline Condition Assessment and Integrity – new graduate course (tabled on 01/31/22 – pending CE/CEM offline discussion)

10.1.8. EFD 89-21 CEM 58700 Underground Infrastructure Asset Management – new graduate course (tabled on 01/31/22 – pending CE/CEM offline discussion)

- 10.1.9. **EFD 90-21 CEM 58600 Development of Underground Space** – new graduate course *(tabled on 01/31/22 – pending CE/CEM offline discussion)*
- 10.1.10. **EFD 91-21 CEM 58500 Temporary Structures** – new graduate course *(tabled on 01/31/22 – pending CE/CEM offline discussion)*
- 10.1.11. **EFD 82-22 VIP 17910 First-Year Participation in VIP Limited** – new undergraduate course
- 10.1.12. **EFD 83-22 VIP 27910 Sophomore Participation in VIP Limited** – new undergraduate course
- 10.1.13. **EFD 84-22 VIP 37910 Junior Participation in VIP Limited** – new undergraduate course
- 10.1.14. **EFD 85-22 VIP 47910 Senior Participation in VIP Limited** – new undergraduate course
- 10.1.15. **EFD 86-22 VIP 27930 Sophomore Participation in VIP Extended** – new undergraduate course

11. New Business

11.1. No new business.

12. Motion to adjourn was made by McMillan and seconded by Weidner. The meeting adjourned at 1:15 pm.

Engineering Curriculum Committee Minutes

Meeting: #22
Date: April 11, 2022
Present: Marais (chair), Alexeenko (ex-officio), Comer, Howarter, Hynes, Kvam, Lopez de Bertodano, Martinez, Rispoli, Schroeder, Troy, Wassgren, Weidner
Recorder: Vaughn

1. Meeting was called to order at 12:32 pm via Teams.
2. Motion to **approve the agenda for meeting #22** was made by Weidner and seconded by Martinez. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #21 (04/08/22)** was made by Martinez and seconded by Rispoli. Motion passed with two abstentions.
4. Motion to **approve the following EFDs for distribution to the faculty** was made by Wassgren and seconded by Comer. Motion passed unanimously.
 - 4.1. **EFD 97-22 ME Manufacturing Engineering Concentration – expiration of concentration**
5. Motion to **approve the following EFDs for distribution to the faculty** was made by Weidner and seconded by Martinez. Motion passed unanimously.
 - 5.1. **EFD 04-23 CEM 35100 Foundations of Architectural Design – new undergraduate course**
6. Motion to **approve the following EFDs for distribution to the faculty** was made by Weidner and seconded by Comer. Motion passed unanimously.
 - 6.1. **EFD 05-23 CEM 45100 Integrative Building Design – new undergraduate course**
7. Old Business
 - 7.1. Tabled EFDs remaining:

- 7.1.1. **EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course** (*tabled on 10/28/16 – missing previous offerings and grading*)
- 7.1.2. **EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course** (*tabled on 11/17/17 – missing previous offerings and grading*)
- 7.1.3. **EFD 12-21 CEM Concentration in IDE MS – new graduate concentration** (*tabled on 09/28/20 – waiting to address CE/CEM roles and responsibilities*)
- 7.1.4. **EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course** (*tabled on 02/26/21 – missing grade mapping*)
- 7.1.5. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration** (*tabled on 04/26/21 – missing permanent course numbers for core courses*)
- 7.1.6. **EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate** (*tabled on 04/26/21 – missing permanent course numbers for core courses*)
- 7.1.7. **EFD 88-21 CEM 58800 Pipeline Condition Assessment and Integrity – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 7.1.8. **EFD 89-21 CEM 58700 Underground Infrastructure Asset Management – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 7.1.9. **EFD 90-21 CEM 58600 Development of Underground Space – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 7.1.10. **EFD 91-21 CEM 58500 Temporary Structures – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 7.1.11. **EFD 82-22 VIP 17910 First-Year Participation in VIP Limited – new undergraduate course**

- 7.1.12. EFD 83-22 VIP 27910 Sophomore Participation in VIP Limited – new undergraduate course
 - 7.1.13. EFD 84-22 VIP 37910 Junior Participation in VIP Limited – new undergraduate course
 - 7.1.14. EFD 85-22 VIP 47910 Senior Participation in VIP Limited – new undergraduate course
 - 7.1.15. EFD 86-22 VIP 27930 Sophomore Participation in VIP Extended – new undergraduate course
8. New Business
- 8.1. No new business.
9. Motion to adjourn was made by Weidner and seconded by Martinez. The meeting adjourned at 12:47 pm.

Engineering Curriculum Committee Minutes

Meeting: #23
Date: April 18, 2022
Present: Marais (chair), Comer, Harris, Howarter, Hynes, Kvam, Lopez de Bertodano, McMillan, Rispoli, Troy, Wassgren, Weidner
Recorder: Vaughn

1. Meeting was called to order at 12:31 pm via Teams.
2. Motion to **approve the agenda for meeting #23** was made by Rispoli and seconded by Howarter. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #22 (04/11/22)** was made by Comer and seconded by Troy. Motion passed with one abstention.
4. Motion to **approve the following EFD on behalf of the faculty** was made by Marais and seconded by Weidner. Motion passed unanimously.
 - 4.1. EFD 100-22 AAE Hypersonics Graduate Certificate – new graduate certificate
5. Motion to **approve the following EFD on behalf of the faculty** was made by Rispoli and seconded by Wassgren. Motion passed unanimously.
 - 5.1. EFD 15-22 BME 58100 Bio-Micro-Electro-Mechanical Systems – change in course title and description
6. Motion to **approve the following EFDs on behalf of the faculty** was made by Comer and seconded by Harris. Motion passed unanimously.
 - 6.1. EFD 90-22 ECE 60270 Structure and Dynamics of Large-Scale Networks – new graduate course
 - 6.2. EFD 91-22 ECE 60431 Fiber Optics Communications – new graduate course
 - 6.3. EFD 92-22 ECE 60432 Nanophotonics Modeling – new graduate course
7. Motion to **approve the following EFDs on behalf of the faculty** was made by Marais and seconded by Weidner. Motion passed unanimously.

- 7.1. EFD 01-23 IDE Major in Autonomy – new graduate major
- 7.2. EFD 02-23 IDE Major in Robotics – new graduate major
- 7.3. EFD 03-23 IDE Major in Internet-of-Things – new graduate major
8. Motion to approve the following EFDs on behalf of the faculty was made by Wassgren and seconded by Comer. Motion passed unanimously.
 - 8.1. EFD 93-22 ME Online Master's Degree Thesis Option – adding thesis option
 - 8.2. EFD 94-22 ME Micro Master's in Mechanical Engineering – credit revision
 - 8.3. EFD 95-22 ME Biomedical Engineering Concentration – expiration of concentration
 - 8.4. EFD 96-22 ME Int Ecog Sci & Eng Concentration – expiration of concentration
9. Old Business
 - 9.1. Tabled EFDs remaining:
 - 9.1.1. EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course (*tabled on 10/28/16 – missing previous offerings and grading*)
 - 9.1.2. EFD 18-18 ECE 60645 High Speed Semiconductor Devices – new graduate course (*tabled on 11/17/17 – missing previous offerings and grading*)
 - 9.1.3. EFD 12-21 CEM Concentration in IDE MS – new graduate concentration (*tabled on 09/28/20 – waiting to address CE/CEM roles and responsibilities*)
 - 9.1.4. EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course (*tabled on 02/26/21 – missing grade mapping*)
 - 9.1.5. EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration (*tabled on 04/26/21 – missing permanent course numbers for core courses*)

- 9.1.6. **EFD 77-21 CHE Grad Certificate in Healthcare Technology – new graduate certificate** (*tabled on 04/26/21 – missing permanent course numbers for core courses*)
- 9.1.7. **EFD 88-21 CEM 58800 Pipeline Condition Assessment and Integrity – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 9.1.8. **EFD 89-21 CEM 58700 Underground Infrastructure Asset Management – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 9.1.9. **EFD 90-21 CEM 58600 Development of Underground Space – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 9.1.10. **EFD 91-21 CEM 58500 Temporary Structures – new graduate course** (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 9.1.11. **EFD 82-22 VIP 17910 First-Year Participation in VIP Limited – new undergraduate course**
- 9.1.12. **EFD 83-22 VIP 27910 Sophomore Participation in VIP Limited – new undergraduate course**
- 9.1.13. **EFD 84-22 VIP 37910 Junior Participation in VIP Limited – new undergraduate course**
- 9.1.14. **EFD 85-22 VIP 47910 Senior Participation in VIP Limited – new undergraduate course**
- 9.1.15. **EFD 86-22 VIP 27930 Sophomore Participation in VIP Extended – new undergraduate course**

10. New Business

10.1. No new business.

11. Motion to adjourn was made by Harris and seconded by Weidner. The meeting adjourned at 12:46 pm.

Engineering Curriculum Committee Minutes

Meeting: #24
Date: April 25, 2022
Present: Marais (chair), Alexeenko (ex-officio), Comer, Harris, Howarter, Hynes, Kvam, Lopez de Bertodano, Martinez, Rispoli, Troy, Wassgren, Weidner
Recorder: Vaughn

1. Meeting was called to order at 12:33 pm via Teams.
2. Motion to **approve the agenda for meeting #24** was made by Howarter and seconded by Weidner. Motion passed unanimously.
3. Motion to **approve the minutes from meeting #23 (04/18/22)** was made by Comer and seconded by Rispoli. Motion passed unanimously.
4. Motion to **approve the following EFDs on behalf of the faculty** was made by Weidner and seconded by Comer. Motion passed unanimously.
 - 4.1. EFD 04-23 CEM 35100 Foundations of Architectural Design – new undergraduate course
 - 4.2. EFD 05-23 CEM 45100 Integrative Building Design – new undergraduate course
5. Motion to **approve the following EFD on behalf of the faculty** was made by Wassgren and seconded by Rispoli. Motion passed unanimously.
 - 5.1. EFD 97-22 ME Manufacturing Engineering Concentration – expiration of concentration
6. Motion to **fast-track approve the following EFDs** was made by Lopez de Bertodano and seconded by Wassgren. Motion passed unanimously.
 - 6.1. EFD 07-23 NUCL 69700 Nuclear Engineering Projects II – change in requisites
 - 6.2. EFD 09-23 NUCL 49700 Selected Topics in Nuclear Engineering – change in requisites

- 6.3. **EFD 10-23 NUCL 59700 Nuclear Engineering Projects I – change in requisites**
7. Motion to **fast-track approve** the following EFDs was made by Lopez de Bertodano and seconded by Comer. Motion passed unanimously.
 - 7.1. **EFD 08-23 NUCL 69500 Independent Study in Nuclear Engineering II – new graduate course**
 - 7.2. **EFD 11-23 NUCL 59500 Independent Study in Nuclear Engineering II – new graduate course**
 - 7.3. **EFD 12-23 NUCL 49500 Independent Study in Nuclear Engineering II – new undergraduate course**
8. Motion to **un-table and approve for distribution to the faculty** the following EFD was made by Marais and seconded by Rispoli. Motion passed unanimously.
 - 8.1. **EFD 18-18 ECE 60645 High-Speed Semiconductor Devices – new graduate course**
9. Old Business
 - 9.1. Tabled EFDs remaining:
 - 9.1.1. **EFD 14-17 ECE 60268 Hybrid Systems: Theory and Applications – new graduate course** (*tabled on 10/28/16 – missing previous offerings and grading*)
 - 9.1.2. **EFD 12-21 CEM Concentration in IDE MS – new graduate concentration** (*tabled on 09/28/20 – waiting to address CE/CEM roles and responsibilities*)
 - 9.1.3. **EFD 51-21 CHE 56300 Advanced Solar Energy Conversion – new graduate course** (*tabled on 02/26/21 – missing grade mapping*)
 - 9.1.4. **EFD 76-21 CHE Concentration in Healthcare Technology for Online IDE Master's Program – new concentration** (*tabled on 04/26/21 – missing permanent course numbers for core courses*)

- 9.1.5. **EFD 77-21 CHE Grad Certificate in Healthcare Technology** – new graduate certificate (*tabled on 04/26/21 – missing permanent course numbers for core courses*)
- 9.1.6. **EFD 88-21 CEM 58800 Pipeline Condition Assessment and Integrity** – new graduate course (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 9.1.7. **EFD 89-21 CEM 58700 Underground Infrastructure Asset Management** – new graduate course (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 9.1.8. **EFD 90-21 CEM 58600 Development of Underground Space** – new graduate course (*tabled on 01/31/22 – pending CE/CEM offline discussion*)
- 9.1.9. **EFD 91-21 CEM 58500 Temporary Structures** – new graduate course (*tabled on 01/31/22 – pending CE/CEM offline discussion*)

9.2. New Business

- 9.2.1. No new business.

10. Motion to adjourn was made by Weidner and seconded by Kvam. The meeting adjourned at 12:56 pm.