

Agenda — College of Engineering Curriculum Committee

Date/time: Wednesday, November 19, 2025 at 8:00AM

Location: Driftmier 1106C and via Zoom

Meeting materials

Voting Members:

Dr. David Stooksbury, ECAM

Dr. John Aliu, EETI

Dr. Alison Banka, CMBE (Chair)

Dr. Racheida Lewis, ECE

Ex-officio Members:

Dr. Eduardo Silva, Chair, CMBE [not present]

Dr. Fred Beyette, Chair, ECSE [not present]

Dr. Bjorn Birgisson, Chair, ECAM [not present]

Dr. Mable Fok, Associate Dean

Dr. Julie Martin, EETI Director [not present]

Mr. Justin Miller, Academic Manager

Ms. Litashia Carter, CENGR Director of Academic Advising [not present]

Agenda:

General items:

- Approval of previous meeting minutes

Moved, seconded, approved.

Key action/takeaway: Alison will send the minutes to Lillian to post on CENGR website

- Policy on Public Posting of Curriculum Committee Meetings, Agendas, and Minutes (*status update/draft from Mable*)

Policy moved to approve, seconded, approved.

Key action/takeaway: Scheduling CENGR CC meetings before the start of the semester is essential so school CCs can plan their meeting schedule accordingly. Similarly, knowing who is on the school and CENGR CC is essential a semester ahead for purposes of meeting planning.

- Bulletin description 'cover page' (*status update from school CC*)

PARC is officially closed for the year! CMBE submitted their updates. ECAM made their adjustments. For ECE, the 'to do list' in July once PARC opens back up is updating the bulleting cover pages.

Key action/takeaway: ECE should address these 'cover page' changes once PARC reopens (likely July 2026)

- Discrepancies between Bulletin and Double Dawgs website (*status update from school CC*)

For CMBE, we finally updated our five year plan of study. We have one more round of final edits before sending it to the Double Dawgs program and Lillian to update the CENGR website.

For ECAM, grad programs (minus Ag) is being updated. These updates will be finalized during their upcoming retreat (new courses, etc.). Aim for addressing/updating five year plans of study in the spring (pending how quickly things move). There is a lot in flux for ECAM currently.

For ECE, still under construction. Due to changes in ECE CC members fairly last minute, scheduling meetings this semester has been a challenge and more communication/planning has been done via email. Early spring deadline for ECE, too.

Key actions/takeaways: All schools should aim to have any Double Dawgs discrepancies addressed and fixed both on the Double Dawgs website by early spring.

- Updating Double Dawg information to be same on both D.D. website AND CENGR website (*status update from school CC*)

Updating the CENGR website is essential once all Double Dawgs discrepancies have been addressed. This is a good opportunity also to add any additional clarifying information to the CENGR Double Dawgs website (for instance, a note to students to find a research mentor early for thesis-based MS degrees).

Key actions/takeaways: All schools should aim to have their CENGR Double Dawgs info updated by the early spring (send updates to Lillian).

- Capstone—addition of 'S' to 4910 and 4911 (*status update—see email chain and University council information*)

Several of us met outside of the overall CC to discuss the benefits of adding the S prefix to capstone and what the S prefix means, as defined by the university council. It's important to note that either all capstones across all majors should receive the S prefix, or none of them should for consistency/continuity and to assist advisors in not juggling different types of capstones.

After weighing the potential benefits of adding the S prefix to all capstones and what the S prefix is supposed to stand for, we don't believe that all capstone projects across all disciplines actually fulfill what a service-learning course is supposed to entail (especially 'competition' projects or projects not completed for local or state governments). With that, we do not recommend moving forward with adding an S prefix to capstone courses and will work to remove the S prefix from any capstone courses that it was accidentally added to sometime last spring.

Key actions/takeaways: Follow up with CAPA and the Registrar's Office as needed via email to help remove S prefix (Mable already communicated this with those offices via email on Monday, Nov. 17th).

- Institutional competencies/student learning outcomes ([CENGR-Institutional Competencies.xlsx](#)) (*status update from school CC*)

Move to next meeting agenda.

ECAM items:

- CVLE 4150/6150—prerequisite needed (*status update—in CAPA?*)

Has been submitted to CAPA!

Key actions/takeaways: none from our end

- New course proposal: Advanced Survey Methods using Drones (*status update—in CAPA?*)

Waiting to hear back from David for a course number. Prerequisites have been established in the new course proposal. David and Justin will work together on a course number to move this forward.

Key actions/takeaways: David and Justin will determine a course number and Justin will submit this new course proposal to CAPA. For all CC members, determine a course number at the school level before sending new course proposals to the college-level to prevent delays.

- MCHE 4360/6360—course change proposal

Proposed course change is to remove one pre-req and add another (add MCHE 3300 and remove ELEE 4220/6220).

Moved, approved by the committee.

Key actions/takeaways: Justin will submit this proposed course change to CAPA.

- New course proposal: Foundations of Ecological Restoration and Nature-Based Engineering (ECOL/ENVE 3***)

Need to work w/ ecology to come up with a cohesive course number. This will be the foundational/core requirement for the proposed certificate (fusion of CVLE/ENVE and ecology) that responds to a demand from our industry partners and government partners at Army Corp of Engineers that want engineering students well-versed in natural systems, combining conventional infrastructure with natural infrastructure (i.e., a sea wall that combines marshes and mangroves all into one system for better performance). This certificate and course are intended for students from a wide range of science and engineering disciplines. Might be what you call ‘ecological engineering,’ so wanted to be accessible to a range of students and disciplines (lots of electives, and this course is a broad survey intended to prepare them to work on interdisciplinary teams).

This will be a joint venture (a certificate can be ‘owned’ by two different units).

For this class, will it be ENVE (ECOL) or ECOL (ENVE)? This will be co-taught, but what will the home department be (which prefix comes first = the home department)? This is something that hasn’t been discussed yet.

Discussion to get course number should also discuss what the home department will be.

Prerequisites (2 options, only 1 required)—ENVE 2610 is the ‘primary pathway’ (only pre-reqs for that class are pre-calculus) for non-engineering majors. Likely ENGR 2110 would operate as the pre-req for engineering majors.

Likely, would expect an enrollment of approx. 30 students when we get to ‘cruising altitude’ (perhaps 1/3 engineering and 2/3 non-engineering students). In general, a struggle on the engineering side is space (classrooms and seats in class). Perhaps one benefit of ‘hosting’ this course in ecology would be space, though this class isn’t required to have a classroom in Driftmier necessarily.

Move to conditionally approve of this course, pending course # and deciding what the home department will be. Seconded and approved by committee.

Key actions/takeaways: Brian Bledsoe will meet with ecology colleagues to determine a course number and home department. Staff from that home department (Justin, if engineering is the home department) will submit this new course proposal to CAPA.

- New certificate program—Certificate in Ecological Restoration and Nature-based Engineering (ERNE)

Justification for new certificate program included above in the discussion about the new course proposal associated with this certificate.

This certificate program will consist of 3 foundational courses + electives (the 2000-level course that serves as a pre-req for the course we just approved, the 3000-level foundational course we just approved, and a capstone [retained as is in engineering]). Long list of potential elective courses from a variety of disciplines.

Brian will reach out to CMBE CC chair/school chair to let them know as a courtesy that a CMBE course is a potential elective (CMBE ‘approval’ not required, but just as a courtesy).

Moved to approve, seconded, and approved.

Key actions/takeaways: Mable and Justin (copying Alison) will discuss what needs to be done to move a new certificate forward and will do so.

EETI/ENED items:

ENGR items:

- ENGR 4900—course change proposal (status update from school CC)

ENED, CMBE, ECAM all approve. ECE will send info about these out to OK on ECE.

Move to approve pending ECE approval, seconded, approved.

Key actions/takeaways: ECE will vote on this proposal via email and will let me (Alison) and Justin know when this happens. Justin will submit this course proposal to CAPA after that vote occurs.

- ENGR 6990—course change proposal (status update from school CC)

ENED, CMBE, ECAM all approve. ECE will send info about these out to OK on ECE.

Move to approve pending ECE approval, seconded, approved.

Key actions/takeaways: ECE will vote on this proposal via email and will let me (Alison) and Justin know when this happens. Justin will submit this course proposal to CAPA after that vote occurs.

ECSE items:

- New course proposal: Radar Signal Processing (*status update-- in CAPA?*)

Has been submitted to CAPA!

Key actions/takeaways: None on our end

CMBE items:

- Course change proposal: BCHE 3520 (Mass Transport and Rate Phenomena; *status update-- in CAPA?*)

Has been submitted to CAPA!

Key actions/takeaways: None on our end

Other items:

- Teaching schedules/standing meeting times to avoid for planning next semester's meetings

Key actions/takeaways: Justin sent me (Alison) everyone's teaching schedules for the spring. Within the next couple of weeks, I will identify potential meeting dates/times and will email out for everyone's availability so our meetings are on the schedule before the end of this semester (allowing school CC committees to plan their own meetings accordingly).

Next meeting: TBD (next semester)