

APPLIED SCIENCE ENGINEERING-DAVIS (EAD)

College of Engineering

EAD 230 – Topics in Computational Fluid Dynamics (3 units)

Course Description: Hands-on approach to numerical methods for compressible fluid flow. Readings and discussions of solution strategies will be complemented with programming exercises and projects to give first-hand experience with performance and accuracy of several computational methods; from upwind differencing to Godunov methods.

Prerequisite(s): EAD 210A; EAD 210B; or consent of instructor.

Learning Activities: Lecture 3 hour(s).

Grade Mode: Letter.

EAD 289A – Special Topics in Applied Science: Atomic, Molecular, & Optical Physics (1-5 units)

Course Description: Special topic in Atomic, Molecular, and Optical Physics.

Prerequisite(s): Graduate standing or consent of instructor.

Learning Activities: Variable.

Repeat Credit: May be repeated 5 unit(s) per segment when topic differs.

Grade Mode: Letter.

EAD 289B – Special Topics in Applied Science: Chemical Physics (1-5 units)

Course Description: Special topic in Chemical Physics.

Prerequisite(s): Graduate standing or consent of instructor.

Learning Activities: Variable.

Repeat Credit: May be repeated 5 unit(s) per segment when topic differs.

Grade Mode: Letter.

EAD 289C – Computational Physics: Computational Physics (1-5 units)

Course Description: Special topic in Computational Physics.

Prerequisite(s): Graduate standing or consent of instructor.

Learning Activities: Variable.

Repeat Credit: May be repeated 5 unit(s) per segment when topic differs.

Grade Mode: Letter.

EAD 289D – Special Topics in Applied Science: Biophotonics/Biotechnology (1-5 units)

Course Description: Special topic in Biophotonics/Biotechnology.

Prerequisite(s): Graduate standing or consent of instructor.

Learning Activities: Variable.

Repeat Credit: May be repeated 5 unit(s) per segment when topic differs.

Grade Mode: Letter.

EAD 289E – Special Topics in Applied Science: Materials Science (1-5 units)

Course Description: Special topic in Materials Science.

Prerequisite(s): Graduate standing or consent of instructor.

Learning Activities: Variable.

Repeat Credit: May be repeated 5 unit(s) per segment when topic differs.

Grade Mode: Letter.

EAD 289F – Special Topics in Applied Science: Imaging Science & Photonics (1-5 units)

Course Description: Special topic in Imaging Science and Photonics.

Prerequisite(s): Graduate standing or consent of instructor.

Learning Activities: Variable.

Repeat Credit: May be repeated 5 unit(s) per segment when topic differs.

Grade Mode: Letter.

EAD 289G – Special Topics in Applied Science: Nonlinear Optics (1-5 units)

Course Description: Special topic in Nonlinear Optics.

Prerequisite(s): Graduate standing or consent of instructor.

Learning Activities: Variable.

Repeat Credit: May be repeated 5 unit(s) per segment when topic differs.

Grade Mode: Letter.

EAD 289H – Special Topics in Applied Science: Plasma/Fusion Energy Physics (1-5 units)

Course Description: Special topic in Plasma/Fusion Energy Physics.

Prerequisite(s): Graduate standing or consent of instructor.

Learning Activities: Variable.

Repeat Credit: May be repeated 5 unit(s) per segment when topic differs.

Grade Mode: Letter.

EAD 289I – Special Topics in Applied Science: Quantum Electronics (1-5 units)

Course Description: Special topic in Quantum Electronics.

Prerequisite(s): Graduate standing or consent of instructor.

Learning Activities: Variable.

Repeat Credit: May be repeated 5 unit(s) per segment when topic differs.

Grade Mode: Letter.

EAD 289J – Special Topics in Applied Science: Condensed Matter/Statistical Physics (1-5 units)

Course Description: Special topic in Condensed Matter/Statistical Physics.

Prerequisite(s): Graduate standing or consent of instructor.

Learning Activities: Variable.

Repeat Credit: May be repeated 5 unit(s) per segment when topic differs.

Grade Mode: Letter.

EAD 289K – Special Topics in Applied Science: Classical Optics (1-5 units)

Course Description: Special topic in Classical Optics.

Prerequisite(s): Graduate standing or consent of instructor.

Learning Activities: Variable.

Repeat Credit: May be repeated 5 unit(s) per segment when topic differs.

Grade Mode: Letter.

EAD 289L – Special Topics in Applied Science: Microwave & Millimeter-Wave Technology (1-5 units)

Course Description: Special topic in Microwave and Millimeter-Wave Technology.

Prerequisite(s): Graduate standing or consent of instructor.

Learning Activities: Variable.

Repeat Credit: May be repeated 5 unit(s) per segment when topic differs.

Grade Mode: Letter.

EAD 289M – Special Topics in Applied Science: Synchrotron Radiation Science (1-5 units)

Course Description: Special topic in Synchrotron Radiation Science.

Prerequisite(s): Graduate standing or consent of instructor.

Learning Activities: Variable.

Repeat Credit: May be repeated 5 unit(s) per segment when topic differs.

Grade Mode: Letter.

EAD 289N – Special Topics in Applied Science: Space Physics (1-5 units)

Course Description: Special topic in Space Physics.

Prerequisite(s): Graduate standing or consent of instructor.

Learning Activities: Variable.

Repeat Credit: May be repeated 5 unit(s) per segment when topic differs.

Grade Mode: Letter.

EAD 290 – Seminar (1-2 units)

Course Description: Seminar.

Learning Activities: Seminar 1-2 hour(s).

Grade Mode: Satisfactory/Unsatisfactory only.

EAD 290C – Graduate Research Group Conference (1 unit)

Course Description: Graduate research group conference.

Prerequisite(s): Consent of instructor.

Learning Activities: Discussion 1 hour(s).

Repeat Credit: May be repeated.

Grade Mode: Satisfactory/Unsatisfactory only.

EAD 298 – Group Study (1-5 units)

Course Description: Group study.

Learning Activities: Lecture 3-15 hour(s).

Grade Mode: Satisfactory/Unsatisfactory only.

EAD 299 – Research (1-12 units)

Course Description: Research.

Learning Activities: Variable.

Grade Mode: Satisfactory/Unsatisfactory only.