Microelectronics-Photonics (MEPH)

Faculty
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Colin David Heyes, Assistant Professor
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Yanbin Li, Professor
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Omar Manasreh, Professor
Alan Mantooth, Distinguished Professor, Twenty-First Century Chair in Mixed-Signal IC Design and CAD
Mansour Mortazavi, Adjunct Professor (University of Arkansas at Pine Bluff)
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Ryan Tian, Associate Professor
Steve Tung, Professor
Rick Ulrich, Professor
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Microelectronics-Photonics (microEP) is an interdisciplinary program based in the Division of Interdisciplinary Studies in the Graduate School that prepares students for careers involving micro/nano materials, processing, and devices applied in areas such as photonics, microelectronics, bio/chemical analysis, etc. The microEP Graduate Program offers M.S. and Ph.D. degrees, as well as an undergraduate minor in Microelectronics-Photonics.

The purpose of this minor is to allow undergraduates in science and engineering to be able to capitalize on the research and educational core of the microEP Graduate Program as they prepare to enter the job market or compete for positions in top level graduate programs.

Requirements for a minor in Microelectronics-Photonics:

Select one of the following: 3
INEG 4323 Quality Engineering and Management (Irregular)
INEG 4433 Systems Engineering and Management (Fa)
INEG 4443 Project Management (Irregular)

Select four of the following: 12
BENG 4123 Biosensors & Bioinstrumentation (Odd years, Sp)
CHEM 4213 Instrumental Analysis (Sp)
ELEG 4203 Semiconductor Devices (Irregular)
ELEG 4223 Design and Fabrication of Solar Cells (Irregular)
MEPH 4303 Materials Laboratory (Irregular)
MEPH 488V MicroEP Undergraduate Research (Sp, Fa)
PHY 3603 Introduction to Modern Physics (Fa)
PHY 4713 Solid State Physics (Even years, Sp)
PHY 4213 Physics of Devices (Even years, Sp)
Or from other appropriate courses not on this list if approved first by the microEP Program and by the course instructor.

Total Hours 15

1 See examples at the microEP Web site.

Students accepted into the microEP minor must attend an orientation session at the beginning of each semester as well as the monthly microEP graduate student research presentations. Students enrolled in the microEP minor must attend at least one public presentation of a Master of Science thesis in microEP or a Doctor of Philosophy dissertation in microEP each semester. Students wishing to declare this minor must apply through the microEP Program Web site, http://microEP.uark.edu, and be accepted into the minor at least two regular semesters before their graduation date.