



*Where
excellence
surrounds
you*

EPP Online - Lessons Learned

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& Hedy Alavi

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Where excellence surrounds you

Engineering and Applied Science Programs for Professionals



Introductions

- **Brenda Knox**
Coordinator - EPP Online
Senior Information Technology Specialist
- **Hedy Alavi**
Program Chair
Environmental Engineering, Science & Management

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Engineering and Applied Science Programs for Professionals

Commitment to Engineering Professionals



- **Since 1916**
- **One of the largest graduate programs in the country for working engineers**
 - **Over 2,200 students**
 - **Over 5,500 degrees awarded in last decade**
 - **More than 460 course offerings**
- **Life-long learning to meet your continuing needs**

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Degree Program Areas

- **Applied and Computational Mathematics**
- **Applied Biomedical Engineering**
- **Applied Physics**
- **Bioinformatics***
- **Chemical and Biomolecular Engineering**
- **Civil Engineering**
- **Computer Science**
- **Electrical and Computer Engineering**
- **Environmental Engineering, Science & Management**
- **Information Systems and Technology**
- **Materials Science and Engineering**
- **Mechanical Engineering**
- **Systems Engineering**
- **Technical Innovation and New Ventures****
- **Technical Management**

*Jointly offered with the Zanvyl Krieger School of Arts and Sciences Advanced Academic Programs.

**Jointly offered with the School of Professional Studies in Business and Education

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Quality

- High quality faculty
- Current/relevant programs/courses
- State-of-the-art facilities – laboratory, computer, library and classroom
- Classes sized for optimum interaction
- Top-notch students

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Responsiveness to Students

- **Seven convenient locations**
 - Montgomery County Campus (Rockville)
 - Applied Physics Laboratory (Laurel)
 - Dorsey Center (Elkridge)
 - Homewood Campus (Baltimore)
 - Southern Maryland Higher Education Center (Lexington Park)
 - HEAT Center (Aberdeen)
 - Washington DC (Dupont Circle)
- **Online courses**
 - Accommodates heavy business travel
 - Accommodates out-of-area assignments and active duty
- **Schedules for working adults**
 - Once per week
 - Evenings and weekends



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Environmental Engineering, Science and Management

Degrees & Certificates:

- ❖ **Master of Environmental Engineering**
- ❖ **Master of Science in Environmental Engineering and Science**
- ❖ **Master of Science in Environmental Planning and Management**
- ❖ **Advanced Certificate for Post-Master's Study**
- ❖ **Graduate Certificate**



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Environmental Engineering, Science & Management

- **Advisory Board**
- **Program Committee**
- **Faculty**
- **Admission Requirements**
- **Course Requirements & Program Plan**
- **Course Offerings / Cross-listed Courses**
- **Online Courses**
- **Online Degree: Environmental Planning & Management**



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Why Go Online?

- Student convenience
- Extending JHU's geographic reach
- Defense against new competition

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Timeline

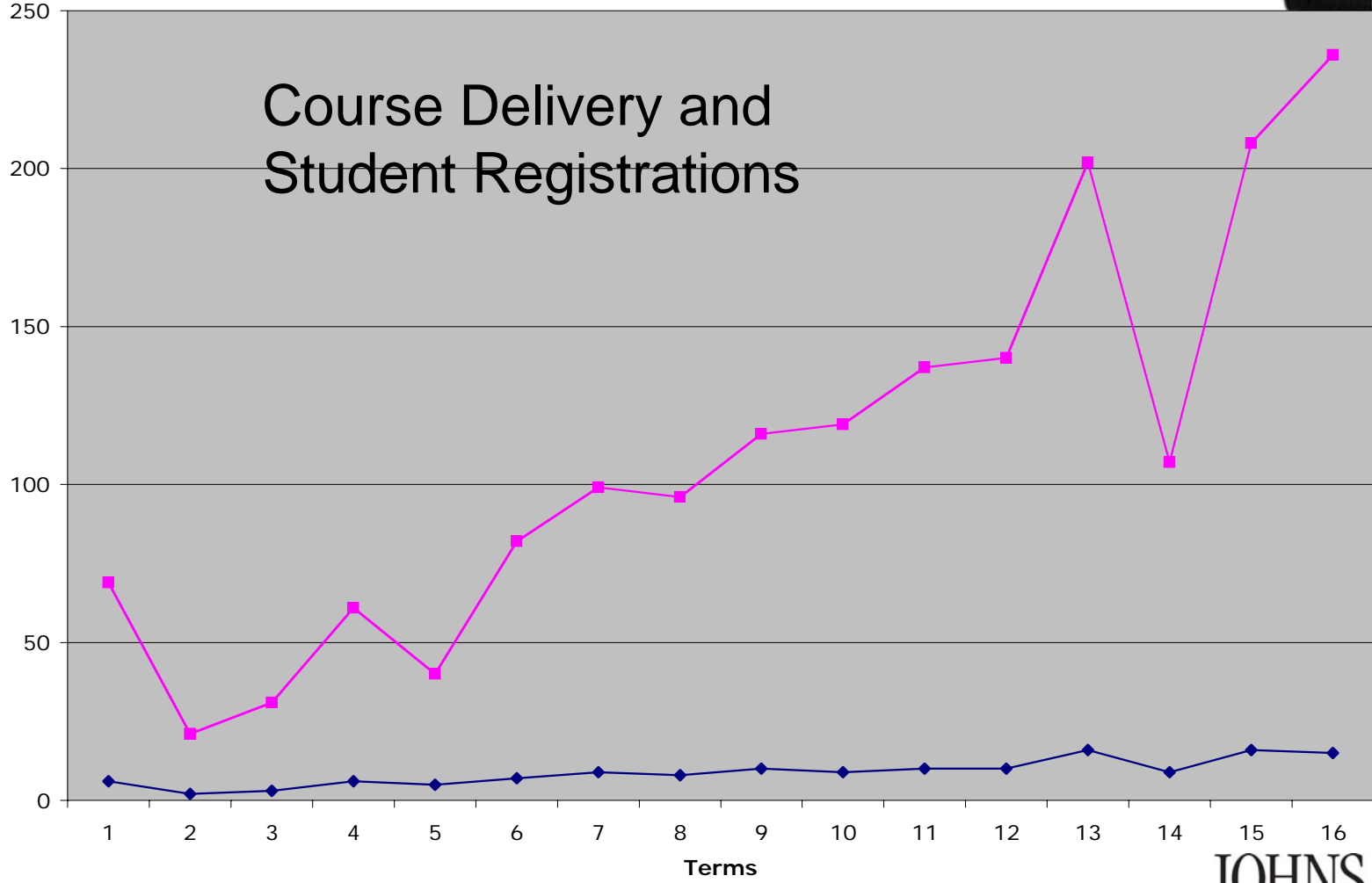
- | | |
|-------------|---|
| Fall 2000 | Developed first 6 online courses. |
| Spring 2001 | Offered first online courses. |
| Spring 2002 | Developed course design standards. |
| Fall 2003 | Upgraded first round of courses. |
| Spring 2005 | First double sections of online courses. |
| Fall 2006 | Launching first fully online degree. |
| Future | Moving to an extensible 2 faculty model
and in house course development. |

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Engineering and Applied Science Programs for Professionals

Course Delivery and Student Registrations



—◆— Courses Offered —■— Registered Students

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Our Approach

- New delivery medium requires new design and delivery skills
 - Active, student-centered learning design
 - Faculty pedagogy training
 - High emphasis on interaction, administrative and academic
 - Primarily asynchronous
 - Initially, not high multi-media content
- Course Design Standards
 - Style
 - Instructional Design

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Our Approach

- Partnership with private course development vendor
- Strong course evaluation program
 - Midterm
 - Final



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Issues and Observations

- Internal resources necessitated involvement of a third party vendor
- Perception of Quality
- Student and Faculty Expectations
- Evaluation issues
- Conscious focus on **communication**, administrative and academic.

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Questions?

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