Undergraduate Initiatives and Programs

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February 17, 2018

SICE

- **2000**, School of Informatics
- **2005**, School of Informatics
  (CS joined the school)
- **2013**, School of Informatics and Computing
  (SLIS joined the school)
- **2015**, Intelligent Systems Engineering Department and
  Program was approved
- **2017**, School of Informatics, Computing, and Engineering

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- ▶ Department of Intelligent Systems Engineering (Fall 2016)
- ▶ Data Science Program (graduate program)

Major Initiatives

- Direct Admission
- Living-Learning Center
- International Experience
- Undergraduate Research
- Diversity
- Outreach

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- Students admitted to IU
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    - Admitted to University Division, as a premajor
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- Idea: Grow the cohort size in the first category above

Direct Admission by Numbers

Year	Total admits	Direct Admits	Direct/Total
2013	175	28	16%
2014	196	52	27%
2015	236	88	37%
2016	228	97	43%
2017	240	98	41%

Direct Admission by Numbers

Year	Total admits	Direct Admits	Direct/Total
2013	175	28	16%
2014	196,12%	52,86%	27%,69%
2015	236,20%,35%	88,69%,214%	37%,37%,131%
2016	228,-4%,16%	97,10%,87%	43%,16%,59%
2017	240,5%,2%	98,1%,11%	41%,5%,11%

Direct Admission by Numbers (ISE)

Year	Total admits	Direct Admits	Direct/Total
2016	31	22	71%
2017	40	26	65%

Direct Admission by Numbers (ISE)

Year	Total admits	Direct Admits	Direct/Total
2016	31	22	71%
2017	40,29%	26,18%	65,-8%

Support System for DAs

- Scholarship
- A new course, CSCI-C102 *Great Ideas in Computing*
- Official induction and pinning ceremony
- Various programs designed by Student Services staff
- InWIC trip for female freshman students
- GHC trip for female sophomore students

Living-Learning Center

- Student Engagement and Success
- Teter Hall, 5th floor, 54 students, co-ed
- Direct admit, premajors, and returning higher level students
- Started in Fall 2017

- ▶ Long-term plans (Exchange Programs):

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  4. University of Mannheim, School of Business Informatics and Mathematics
  5. University of Edinburgh, School of Informatics

- Short-term plans

IE cont'd

- ▶ Short-term plans
  1. IT in Emerging Markets-India , Fall 2016
     New Delhi + Pune, December 27, 2016-January 7, 2017.
     Repeated, December 27, 2017-January 7, 2018.
     Special focus: Digital India Program

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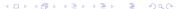
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- International Serve/Teach-IT (Belize: 2015, 2018)

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- Setting bigger goals:
  1. Katie Siek invited to The White House Frontiers Conference based on work in undergraduate research in Health Informatics and the Maker Movement
  2. Competitions: e.g. ACM's Student Research Competition, ...
  3. Publications: IU Journal of Undergraduate Research, ...
  4. Senior Thesis Award

- ▶ NCWIT Pacesetter Team for the third time!
- ▶ Collaborative plans with Hudson & Holland Scholars Programs and Groups Scholars Program

Outreach

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- ▶ K-12, teacher training, CS education:
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  2. 67% of parents and 56% of teachers in US believe students should be required to learn CS.

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  2. 67% of parents and 56% of teachers in US believe students should be required to learn CS.
  3. Only 77 schools in IN (18% of IN schools with AP programs) offered an AP CS course in 2016-17
  4. Universities in Indiana only graduated 1 new teacher prepared to teach CS in 2016.

- Cheng Wu innovation challenge
- The Cross Campus Certificate in Entrepreneurship (SICE + Kelley partnership)
- Vibrant ecosystem of student organizations, currently 15

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- Specialization in Data Science (CS Program)
- Media Cognate (Informatics Program)

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The Big Question

- Where will my daughter or son be in 4 years? Is this a bubble?
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- Computing is integrated into everyday life.
- Data is everywhere and more is being generated every second.

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- 58% of new STEM jobs are in computing.
- Only 8% of STEM graduates are in Computer Science.

Thank You!

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