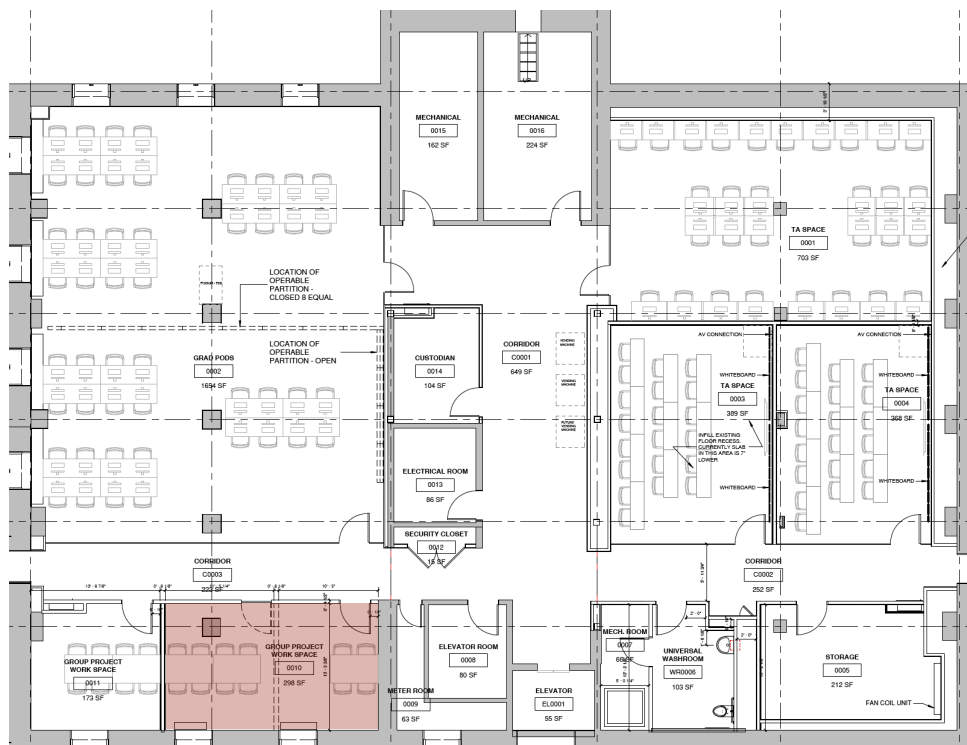# SoCS Council Meeting

Apr 4, 2017

AGENDA

1. Approval of Agenda
2. Interim Director's Remarks — Pascal
3. Undergraduate Curriculum Committee — Dave Calvert
4. Data Science Certificate — Pascal
5. Graduate Curriculum Committee — Yang
6. Associate Director's Remarks (Undergraduate Studies) — Judi
7. Any other business

2. INTERIM DIRECTOR'S REMARKS

- 4 offices in VMI
- THRN 2420
- Other options?

CL teaching focused positions

• Andrew Runka: lectures on April 10 at 1:00 pm
• Denis Nikitenko: lectures on April 13 at 9:30 am
• Sharief Oteafy: lectures on April 13 at 1:00 pm
• Ritu Chaturvedi: lectures on April 17 at 9:00 am
• David Sprague: lectures on April 17 at 2:00 pm

Tenure track assistant professor position

• Posting up since Mar 23 and until Apr 23
• Review of applications will begin Apr 24
• Interviews in June or July

Associate professor position (cybersecurity)

- Faculty Search Committee has been formed
  (A. Hamilton-Wright, P. Matsakis, C. Obimbo,
   D. Stacey, D. Whittle, J. Fraser)
- Posting approved by Dean; now in Provost Office
- Review of applications should begin May 15
- Interviews in June or July

Other positions requested

- A third CL position
  (as Deb may start admin leave in F17)
- A second tenure track position
  (as Blair will start phased retirement in F17)

PHASE I – NOW

- Hire 1 regular faculty with expertise in cybersecurity
- Introduce 2 new undergraduate security courses for F18-W19
- Make sure there is a space in Reynolds that can be set up
  as a Security Operations Centre (25-seat lab)
- Start paperwork for new graduate program approval

PHASE II – ONCE REGULAR FACULTY HAS JOINED SOCS

- Form advisory board
- Hire 1 CL faculty with expertise in cybersecurity
- Secure more resources for when program is launched
- Submit paperwork for new graduate program approval

PHASE III – ONCE NEW PROGRAM HAS BEEN APPROVED

- Market and promote new program
- Convert CL position into regular position
- Hire 1 other faculty with cybersecurity expertise
- Hire 1 lab manager / technical support for lab
- Set up lab as a Security Operations Centre

4. DATA SCIENCE CERTIFICATE

What: OpenEd (L. Stobbe) is creating a data science certificate with help from Math&Stats (J. Horrocks) and SOCS (R. Dara)

Admission: undergrad degree or college diploma

Audience: professionals working with data from various sectors in healthcare, finance, insurance and marketing

Courses: 3 online courses, 1 course/semester, 8 weeks/course

Program: reviews and provides a solid understanding of data science and the role of the data scientist in the real-world environment

What's next?

☐ Without us… but good luck!
☐ With us… but what does it mean?

Responsibilities

☐ Assist with preparation of submission
  to Senate Committee on Non-Degree Studies
☐ Collaborate in marketing and promoting the program
☐ Provide expertise re course content
☐ Provide advice and guidance re recruitment
  of course developers and instructors
☐ Attend program review and debrief meetings
  to review student evaluations and course curriculum

Budget
☐ Investment = − $72K
☐ Revenue/year = + $86K
☐ Expenses/year = − $58K
☐ Balance/year = + $28K

Shares
☐ OpenEd = 60%
☐ Math & Stats = 20%
☐ SOCS = 20%

SOCS share
☐ Investment = − $13.5K
☐ Balance/year = + $5.5K

5. GRADUATE CURRICULUM COMMITTEE

Report by Grad Curr Cmt
Apr 4, 2017

A. On Creation of PhD <u>Learning Modules</u>

   1. Start with the module on Introductory Programming

   2. A faculty member with a PhD student as potential module user was consulted for a target language.

   3. A prototype learning module has been drafted.

B. Guidelines followed in creation

   a) State learning objectives at a suitable level.

   b) Cover the minimum scope.

   c) Recommend learning resources.

   d) Allow co-advisors to tailor/add as needed.

Alternative Module Structures

- <u>Option 1</u>

   A. Learning Objectives

   B. Primary Learning <u>Resource</u>

- Option 2

   ❑ Option 1 plus the following
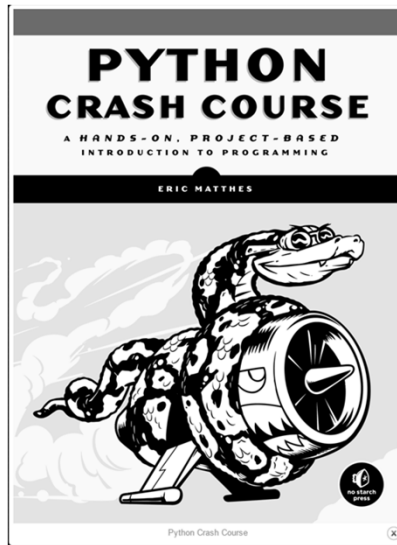
   C. Learning Objectives as Covered by Suggested Textbook (elaborative)

- Option 3

   ❑ Option 1 plus the following

   D. Learning Objectives as Covered by Suggested Textbook (concise)

3

Feedback Requested

1. Faculty feedback on the module is requested.
   A. Are the overall framework and technical level of contents appropriate?
   B. Comments on technical details will be solicited late.
   C. Which optional structure is preferred?
2. The feedback will be used to guide development of final version of the module.

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