Dr. Rikakis called the meeting to order at 3:00 p.m. A quorum was present.

1. **Announcement**

Dr. Rikakis made mention of the events that happened in Paris and expressed his deepest regrets and sympathies towards those affected by this tragedy. He indicated that all Virginia Tech employees and students who are abroad are accounted for.

2. **Adoption of Agenda**

A motion was made and seconded to adopt the agenda. The motion carried.

3. **Announcement of approval and posting of minutes of November 2, 2015**

Dr. Rikakis noted that these minutes have been voted on electronically and can be publicly accessed on the Governance Information System on the Web (http://www.governance.vt.edu).

3. **Old Business**

**Commission on Undergraduate Studies and Policies**

Resolution CUSP 2015-16A
Resolution to Adopt a New Undergraduate Honor Code.

Dr. Gena Chandler-Smith presented the resolution for second reading and made a motion to approve. The motion was seconded and the motion passed.
5. **New Business**

**Commission on Faculty Affairs**  
Resolution CFA 2015-16C  
Resolution to Establish the Academy of Faculty Leadership.

Dr. John Ferris presented the resolution for first reading. This resolution will establish an Academy of Faculty Leadership in order to recognize the exemplary leadership among the faculty at Virginia Tech.

6. **Announcement of Approval and Posting of Commission Minutes**

These minutes have been voted on electronically and will be posted on the University web (http://www.governance.vt.edu). Note that the purpose of voting on Commission minutes is to accept them for filing. University Council By-laws require that policy items be brought forward in resolution form for University Council action.

- Commission on Administrative and Professional Faculty Affairs  
  October 14, 2015

- Commission on Equal Opportunity and Diversity  
  October 19, 2015

- Commission on Graduate Studies and Policies  
  October 21, 2015

- Commission on Outreach and International Affairs  
  October 15, 2015

- Commission on Staff Policies and Affairs  
  September 22, 2015

- Commission on Undergraduate Studies and Policies  
  October 26, 2015

7. **Presentation**

Dr. Scot Ransbottom gave a presentation (attached) on two-factor authentication.

8. **Adjournment**

There being no further business, a motion was made to adjourn the meeting at 3:56 p.m.
Two-Factor Authentication Update

J. Scot Ransbottom
Deputy Chief Information Officer & IT Chief of Staff
Office of the Vice President for Technology and CIO
Virginia Tech
ransbottom@vt.edu

November 16, 2015
Cybersecurity Threats

- **In the news:** UVa, Penn State, Univ. Maryland, VCU, Yale, Iowa State, Stanford, Virginia Tech, ...

- In a successful phishing campaign, password complexity is meaningless
- 23% of recipients open phishing messages and 11% click on attachments*
- Over 95% of state-sponsored actors feature phishing on their attacks*

* Verizon Data Breach Investigation Report 2015
IT security is more important than ever. *Two-factor authentication* will be a significant step forward, but it is far from all we need to do.

“**Two-factor authentication** (also known as 2FA) is a technology patented in 1984 that provides identification of users by means of the combination of two different components. These components may be something that the user knows, something that the user possesses or something that is inseparable from the user.”


We need to move from two-factor authentication being the exception to the norm and one-factor authentication being the exception.
The mantra is “Everyone, Everything.”
How do we get there? Can we get there?

- We do not expect to get all the way to “Everything,” but we need to make two-factor the default and one-factor the exception.

- New “Login” authentication service supports two-factor authentication
  - Offers option to register devices (deferred use of two-factor)

- The transition requires collaboration across the university
  - Central IT – Protect central IT’s most critical data and resources and be a model
  - Rules of engagement – For any unit connecting to critical systems in central IT
  - University policy – In collaboration with data trustees and driven by data sensitivity and criticality of resources
  - Best practices – Facilitating adoption, maintaining usability, understanding data sensitivity
We need to focus on university priorities.

<table>
<thead>
<tr>
<th>Urgency</th>
<th>CAS</th>
<th>Windows</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>• Central IT CAS applications</td>
<td>• Accounts with elevated privileges</td>
<td></td>
</tr>
<tr>
<td>Medium</td>
<td>• Other CAS applications</td>
<td>• Web applications • Servers with sensitive data</td>
<td>• VPN</td>
</tr>
<tr>
<td>Low</td>
<td></td>
<td>• Other servers • Desktops</td>
<td>• Other</td>
</tr>
</tbody>
</table>
The timeline has to be adaptive, especially for later transitions.

- All SAML-based services redirected to new Login service on November 9, 2015
  - External and internal federated services
  - Registration of two-factor device(s) can be deferred, for now
- IT’s Windows servers for passwords and file shares are being secured with two-factor, expected by end of 2015
- Planning for migration of Enterprise applications is underway
  - Hokie SPA is actively being tested
- Testing is available for departmental web-based applications
  - IT staff will help with technical changes and communication
- Anticipated date for all web-based services to require two-factor is July 2016
Communications is very important.

- Daily news email – Multiple notices to date
- Two-Factor Showcases – People can walk in and get help enrolling their devices
  - First showcase is on November 16
  - Others are being scheduled.
- Two-factor Town Halls – First town hall meeting is December 17

Our IT security environment continues to evolve. *Two-factor authentication* is a significant step forward.