To describe Information Resources Management College programs that are available to educate CIOs/CIAOs and their senior staffs in information security and assurance.
The IRM College at a Glance

• College of National Defense University, Ft McNair, DC

• Primary DoD institution to educate CIOs/CIAOs and senior staffs

• Core competencies reflect contemporary thinking/ emerging technologies/best practices
  – Implement Clinger-Cohen Act and GISRA
  – Address critical issues relative to information management, technology, assurance, operations, and acquisition

• Reflect high quality standards
  – Accredited educational institution
  – Certified for NSTISSI Standard 4011
  – NSA Center of Academic Excellence in Information Assurance
  – Best practice institution (Corporate University Xchange)

• Options for senior officers (O-4+), civilians (GS-12+), industry, international
## Cooperative Degrees

<table>
<thead>
<tr>
<th>Educational Institution</th>
<th>Degree</th>
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<tbody>
<tr>
<td>University of Tulsa</td>
<td>• MS Computer Science</td>
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<tr>
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<td>• PhD Computer Science</td>
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<tr>
<td>Syracuse University</td>
<td>• MS Info Resources Mgmt (Gov’t Spec)</td>
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<tr>
<td></td>
<td>• MS Info Resources Mgmt (IA Spec)</td>
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<tr>
<td>University of North Carolina Charlotte</td>
<td>• MS Information Technology</td>
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<tr>
<td>University of Maryland University College</td>
<td>• MS Computer Systems Mgmt</td>
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<td></td>
<td>• MS Telecom Mgmt</td>
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<tr>
<td>East Carolina University</td>
<td>• MS Industrial Technology (Digital Communication Tech Concentration)</td>
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<tr>
<td>Capitol College</td>
<td>• MS Electronic Commerce Mgmt</td>
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<td></td>
<td>• MS Info Telecom Systems Mgmt</td>
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<tr>
<td>George Mason</td>
<td>• MS New Professional Studies (KM)</td>
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<td></td>
<td>• MS Software Engineering</td>
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<td></td>
<td>• MS Information Systems</td>
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<tr>
<td></td>
<td>• PhD Information Technology</td>
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<td></td>
<td>• PhD Computer Science</td>
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<tr>
<td>University of Maryland Baltimore County</td>
<td>• MS Computer Science</td>
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</tbody>
</table>
- Chief Information Officer Certificate Program
- Information Assurance Certification (NSTISSI Standard 4011)
- eGovernment Leadership Certificate
- DoD Information Assurance Scholarship Program
CIO Certificate Program

Highlights

- Endorsed by DoD CIO
- Responds to Clinger-Cohen Act requirements
- Provides flexibility based on individual and organizational needs
- May include information assurance concentration (4011 certification)
- Participants: DoD and Federal Agencies, O-5/GS 13 and above, (may waive one grade)
- Graduate level (required bachelor’s or waiver)
- Allows for 15 hours for cooperative Master’s and PhDs
- May complete program in residence or through web-based DL
- Free for DoD/Low cost for Federal
CIO Certificate Program (continued)

- Courses build on federal competencies
- Courses relate to eleven competency areas
- Includes primary and enrichment courses
- Alternative delivery methods
  - Eight intensive courses (Resident and DL option)
    OR
  - Advanced Management Program
    OR
  - Electives + intensives
Courses Selected from a Cross-section of Competencies

- 2 mandatory primary courses
  - Policy
  - Performance and Results-Based Management
- 4 additional primary courses from different subject areas
- 2 additional primary or enrichment courses from any subject area
CIO Certificate Program Option 1
Intensive Courses

• Eight courses total (IA Concentration = nine courses)
  • One-week resident courses or 10 - 12 week distributed learning courses
    • Resident: 37.5 hours +
    • DL: 3-4 hours per week +
  • May select from a combination of methods
• Requires outside readings
• Paper or project
## CIO Certificate Program
### Intensive Courses FY03
(One-Week Resident or 10-12 Week DL)

<table>
<thead>
<tr>
<th>Competency Area</th>
<th>Course</th>
<th>Course Code</th>
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<tbody>
<tr>
<td>Policy</td>
<td>Changing World of the CIO</td>
<td>14R, 3DL</td>
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<td></td>
<td>Information Operations &amp; Net-centricity</td>
<td>3R, 1DL</td>
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<td></td>
<td>Information Management Planning</td>
<td>6R, 2DL</td>
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<td></td>
<td>Enterprise Resource Applications: Issues in Strategic Planning and</td>
<td>4R, 1DL</td>
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<td></td>
<td>Implementation</td>
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<td></td>
<td>Homeland Security</td>
<td>4R, 1DL</td>
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<td>Strategic Planning</td>
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<td>Performance Management</td>
<td>Measuring Results of Organizational Perform.</td>
<td>11R, 5DL</td>
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<tr>
<td>Capital Planning</td>
<td>Information Technology Capital Planning</td>
<td>7R, 2DL</td>
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<tr>
<td>Process Improvement</td>
<td>Reengineering Organizational Processes</td>
<td>3R, 2DL</td>
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<tr>
<td>Technology Assessment</td>
<td>Critical Information Systems Technologies</td>
<td>10R, 3 DL</td>
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<tr>
<td></td>
<td>Improving Org. Performance w/ Intelligent Decision Systems</td>
<td>1R</td>
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<tr>
<td></td>
<td>Global Enterprise Networking &amp; Telecommunications</td>
<td>7R, 2 DL</td>
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</tbody>
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<tr>
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<tr>
<td>Leadership</td>
<td>Leadership in the Info Age</td>
<td>8R, 1DL</td>
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<td></td>
<td>Strategic Human Capital Management</td>
<td>3R, 1DL</td>
</tr>
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<td></td>
<td>Knowledge Management</td>
<td>4R, 1DL</td>
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<tr>
<td>E-Government/ E-Business</td>
<td>eGovernment</td>
<td>6R, 1DL</td>
</tr>
<tr>
<td></td>
<td>eServices Planning for Improved Gov’t Perf</td>
<td>4R</td>
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<tr>
<td></td>
<td>Strategic Mgmt of Web Sites</td>
<td>4R, 1DL</td>
</tr>
<tr>
<td>Architectures</td>
<td>Managing Information Architectures &amp; Infrastructure</td>
<td>6R, 4DL</td>
</tr>
<tr>
<td></td>
<td>Data Management Strategies</td>
<td>2R, 2DL</td>
</tr>
<tr>
<td></td>
<td>Assuring the Information Infrastructure</td>
<td>11R, 4DL</td>
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<tr>
<td></td>
<td>Developing Enterprise Security Strategies, Guidelines, &amp; Pol</td>
<td>10R, 3DL</td>
</tr>
<tr>
<td>Acquisition</td>
<td>Information Technology Acquisition for the CIO</td>
<td>2R, 2DL</td>
</tr>
<tr>
<td></td>
<td>Information Technology Project Mgmt</td>
<td>4R, 1DL</td>
</tr>
<tr>
<td></td>
<td>DAU IT Level 3 Courses</td>
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CIO Certificate Option 2
Advanced Management Program

- Consists of core, track, electives, and field study
- All attendees meet CIO Certificate requirements for five core courses (incl two mandatory)
- Track and electives may be used to meet other requirements
- May include an information assurance concentration
- Industry and International participation
- Two 14-week sessions per year
CORE PROGRAM (10 Weeks)
• Foundations of IRM
• Enterprise Level Planning for Information Management
• Transforming Work and Organizations
• Issues in Information Technology
• Management Issues in IT Acquisition

SPECIALTY TRACKS (2 Weeks)
Select one
• Enterprise Security Strategies
• Information Technology Project Management
  - alternately offered -
• Critical Frameworks Underlying Public Policy
• Transforming to eGovernment

FINAL REQUIREMENTS (2 Weeks)
• Domestic Field Studies
• Program Synthesis

TWO ELECTIVES (Weeks 2-12)
CIO Participants

- 35% Military
- 40% DoD Civilian
- 24% Federal Agency
- 1% Industry/International
- Average Military Grade – 0-5 +
- Average Civilian Grade – GS 14 +
Information Assurance Certification (NSTISSI Standard 4011) Program

• Based on CNSS standard for information systems security professionals
• Consists of four courses:
  • Assuring the Information Infrastructure
  • Global Enterprise Networking and Telecommunications
  • Managing Information Security in a Networked Environment
  • Developing Enterprise Security Strategies, Guidelines, and Policies
• Requires verification that student can meet standards
• Participants: DoD and Federal Agencies, GS 13-15, O5 & O6 (may waive one grade)
• Allows for 9 hours (up to 15 with CIO certificate) for cooperative Master’s and PhDs
• Free for DoD/low cost for Federal
• 4012 certification course planned for FY04
eGovernment Leadership
Program Highlights

- Based on competencies endorsed by a cross-section of government leaders
- Responds to Administration requirement to employ eGovernment initiatives
- Focuses on all leaders versus just CIO
- Includes course related to Security/Privacy/Access
- Provides some flexibility based on individual and organizational needs: eight courses needed for completion
- Provides options for completion in residence or through web-based DL
- Includes participants from DoD and Federal Agencies, O-5/GS 13 and above, (may waive one grade)
- Free for DoD/low cost for Federal
Student Requirements

- Apply for program(s) on web
- Register for courses
- Successfully complete the courses and assessments within specified timeframes
Alternatives for Attendance at IRMC Programs

- DoD
  - Apply for program, gain acceptance, apply for courses

- Federal Agencies
  - Space available
  - Signed MOA (EPA, Treasury, FAA, Bureau of Land Management, GAO)
DoD IA Scholarship Program (IASP)

- Award full-time (and potentially part-time) scholarships to individuals (through institutions) to major in topics related to IA.

- Multiple options for DoD personnel (military & civilian) to earn Master’s or PhD

- Two IRMC options:
  - AMP (Earn CIO + 4011). Follow with attendance at partnering university.
  - Go straight to partnering university (for those that have already met IRMC requirements).

- Partnering universities include:
  - Syracuse University
  - University of Tulsa
  - George Mason University
  - University of North Carolina Charlotte
  - University of Maryland Baltimore County
  - Working others

- Next announcement expected in spring….more detail and other options in IASP session.
Summary

• Numerous IRMC/DoD programs are available for professional development
• Cooperative agreements with federal agencies
• Programs linked to University degrees
• Cost is right!
• It is up to you!

Visit **IRM College** at: www.ndu.edu/irmc

Visit **DoD IASP** at: www.c3i.osd.mil/iasp