Regis University  
College for Professional Studies  
School of Computer & Information Sciences  
Term 2012

Course Title: Risk Management

Course Number: MSIA 678

Instructor Information:

<table>
<thead>
<tr>
<th>Name:</th>
<th>Click here to enter text.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Location:</td>
<td>Click here to enter specific campus &amp; room or online delivery.</td>
</tr>
<tr>
<td>Telephone Number:</td>
<td>(Facilitator: enter phone number you can be reached by students)</td>
</tr>
<tr>
<td>Email:</td>
<td>Click here to enter text. (See course policies &amp; procedures note on email address.</td>
</tr>
<tr>
<td>Additional Contact Information Regarding instructor Contact.</td>
<td>Click here to enter text.</td>
</tr>
</tbody>
</table>

COURSE POLICIES AND PROCEDURES:

Facilitator’s Expectations

Class Participation

Learners are expected to make every effort to attend all class meetings. Learners unable to attend the first class must contact the facilitator ahead of time. Learners risk being dropped from the course if they do not attend the first night of class, or – for online courses – do not login and post within the first three days of class and do not notify the instructor of an issue. If the learner misses two or more class sessions or fails to thoughtfully participate in each online discussion, the learner may fail the class.

(Facilitators: include your expectations for participation. Individual faculty policies may include higher expectations than the guidelines identified in this syllabus, but all learners are required to meet the minimum requirements. Also specify if you allow learners to revise assignments for a higher grade, specify under what conditions and deadlines as well as impact on assignment and course grade.)

Email Communication
Email communication between facilitators and learners must be conducted using Regis email addresses, or, in the case of online courses, must use the course mail system.

(Instructors: include in this section any naming conventions and any other email policies, including the reply time students can expect from you.)

All information from this point on is standard and may not be adjusted without approval.

Course Description:

This course introduces the student to the basic fundamentals of the Risk Management (RM) which includes reducing the risk related to threats to the enterprise. This includes a sequence of activities including risk identification, risk assessments, risk analysis, risk mitigation, risk transference, and risk acceptance strategies. It takes into all considerations of risk to include environmental, technology, humans, organizations and politics. There will always be residual risk. This course examines the main objective of Risk Management which is to reduce the residual risk to an acceptable level for your organization. RM must address the protection of information systems against unauthorized access to, or modification of, information in processing, at rest, or in transit. RM must also provide adequate controls to protect against the denial of service to authorized users or the provision of service to unauthorized users, including those measures necessary to detect, document, and counter such threats. This course will help students examine, learn, and apply effective Risk Management techniques and strategies.

Prerequisite Courses:

You need to have a good understanding of networking fundamentals, technologies, and architectures.

Course Outcomes:

Upon completion of this course, learners should be able to:

1. Evaluate the risk posture of an enterprise using the Risk Management Framework (RMF).
2. Incorporate current technical tools to design a comprehensive risk mitigation approach for an enterprise (including separation of duty, certification and accreditation, protection of personal identifiable information, change management, incident response, and disaster recovery).
3. Apply the appropriate tools, processes, and policies to monitor enterprise activities.
4. Collect and analyze data to audit an enterprise system.
5. Practice ethical use of technology in the enterprise and critical thinking about how to affect such use.

Course Materials:

Required Texts:


**Required Resources:**
Refer to the Course Assignments and Activities, and each Topic’s Readings and Research section for a complete list for each Topic.

Your facilitator may assign additional readings.

**Technology Tools:**
1. A PC-compatible computer system running Windows 2000, XP or Vista.
2. Current Antivirus definitions kept up to date throughout the course.
3. Microsoft Office

**Optional Materials:**

**Research Tools and Resources**
All written assignments are expected to be written using the American Psychological Association (APA) style and format, which includes a title page, and reference page.

1. Regis Dayton Memorial Library, [http://www.regis.edu/library.htm](http://www.regis.edu/library.htm)
   - Computer & Information Sciences Research Guide, [http://libguides.regis.edu/computer_informationsciences](http://libguides.regis.edu/computer_informationsciences)
3. Purdue Online Writing Lab General Writing Resources, [http://owl.english.purdue.edu/owl/section/1](http://owl.english.purdue.edu/owl/section/1)

**Pre-Assignment:**

**Classroom only:**
Read the following before the first night of class:

NIST Special Publication 800-37

**Online only:**
Refer to the table below titled, “Course Assignments and Activities” for your Week 1 assignments. See Topic 1 for details.
# Course Assignments and Activities:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Readings</th>
<th>Graded Assignments or Assignments and Associated Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Authorization and Accreditation (A&amp;A)</td>
<td>Guide for Applying the Risk Management Framework to Federal Information Systems, NIST Special Publication 800–37 Revision 1</td>
<td>Activities 1 – 3. 10 points each</td>
</tr>
<tr>
<td>2</td>
<td>Personally Identifiable Information (PII)</td>
<td>Guide to Protecting the Confidentiality of Personally Identifiable Information (PII), NIST Special Publication 800–122</td>
<td>Activities 1-3 10 points each</td>
</tr>
<tr>
<td>3</td>
<td>Risk Management Framework</td>
<td>NIST SP 800–37 Rev 1</td>
<td>Activities 1-3 10 points each</td>
</tr>
<tr>
<td>4</td>
<td>Incident Detection, Response, and Reporting</td>
<td>Computer Security Incident Handling Guide, NIST Special Publication 800–61 Revision 1.</td>
<td>Activities 1-3 10 points each</td>
</tr>
<tr>
<td>6</td>
<td>Disaster Recovery, Business Continuity, and Contingency Planning</td>
<td>Contingency Planning for Federal Information Systems, NIST Special Publication 800–34 Revision 1</td>
<td>Activities 1&amp;2 10 points each</td>
</tr>
<tr>
<td>7</td>
<td>Separation/Segregation of Duty (SOD)</td>
<td>NIST SP 800-47 NIST SP 800-53 Rev. 4</td>
<td>Activities 1&amp;2 10 points each</td>
</tr>
<tr>
<td>8</td>
<td>Auditing and Accountability</td>
<td>NIST SP 800-53 Rev. 4</td>
<td>Activities 1&amp;2 10 points each</td>
</tr>
<tr>
<td></td>
<td>Total Points</td>
<td></td>
<td>200</td>
</tr>
</tbody>
</table>
**COLLEGE FOR PROFESSIONAL STUDIES GRADING SCALE:**

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage</th>
<th>Grade Point</th>
<th>*Minimum Course Equivalent Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93 to 100</td>
<td>4.00</td>
<td>228</td>
</tr>
<tr>
<td>A–</td>
<td>90 to less than 93</td>
<td>3.67</td>
<td>220</td>
</tr>
<tr>
<td>B+</td>
<td>88 to less than 90</td>
<td>3.33</td>
<td>216</td>
</tr>
<tr>
<td>B</td>
<td>83 to less than 88</td>
<td>3.00</td>
<td>203</td>
</tr>
<tr>
<td>B–</td>
<td>80 to less than 83</td>
<td>2.67</td>
<td>196</td>
</tr>
<tr>
<td>C+</td>
<td>78 to less than 80</td>
<td>2.33</td>
<td>191</td>
</tr>
<tr>
<td>C</td>
<td>73 to less than 78</td>
<td>2.00</td>
<td>179</td>
</tr>
<tr>
<td>C–</td>
<td>70 to less than 73</td>
<td>1.67</td>
<td>172</td>
</tr>
<tr>
<td>D+</td>
<td>68 to less than 70</td>
<td>1.33</td>
<td>167</td>
</tr>
<tr>
<td>D</td>
<td>63 to less than 68</td>
<td>1.00</td>
<td>154</td>
</tr>
<tr>
<td>D–</td>
<td>60 to less than 63</td>
<td>.67</td>
<td>147</td>
</tr>
<tr>
<td>F</td>
<td>Less than 60</td>
<td>0</td>
<td>Less than 147</td>
</tr>
</tbody>
</table>

*See Maximum Points from Course Assignments and Activities Table.*
COLLEGE FOR PROFESSIONAL STUDIES POLICIES (LINKS):
You will be asked to enter a valid Regis University UserID and password to access the following policies.

Academic Integrity

Attendance Participation

Confidential Proprietary Information Policy

Dayton Memorial Library

Diversity

Equal Access and Disability Services

Human Subjects Review (IRB)
http://www.regis.edu/regis.asp?sctn=ars&p1=agr&p2=irb

Inclement Weather and Class Cancellation

Late or Incomplete Course Procedures

Learner Conduct

Writing Assistance

OTHER INFORMATION:

(Facilitator: these should be added by school)
NOTE TO LEARNERS: On occasion, the course facilitator may, at his or her discretion, alter the Learning Activities shown in this Syllabus. The alteration of Learning Activities may not, in any way, change the Learner Outcomes or the grading scale for this course as contained in this syllabus. Examples of circumstances that could justify alterations in Learning Activities could include number of learners in the course; compelling current events; special facilitator experience or expertise; or unanticipated disruptions to class session schedule.