

# ISS4003: Information and Computer Security

## Spring 2022

### 3 units

**Point Loma Nazarene University**  
**College of Natural and Social Sciences**

#### **PLNU Mission**

Point Loma Nazarene University exists to provide higher education in a vital Christian community where minds are engaged and challenged, character is modeled and formed, and service is an expression of faith. Being of Wesleyan heritage, we strive to be a learning community where grace is foundational, truth is pursued, and holiness is a way of life.

#### **Instructor:**

Dr. Benjamin Mood  
[bmood@pointloma.edu](mailto:bmood@pointloma.edu)  
619 849 2269  
RS 216

#### **Meeting Times and Locations:**

##### **Lecture:**

**RS365 - MWF 8:30am – 9:25am**

#### **Tentative Office Hours:**

M: 10:30 - 11:15 (virus lab), 11:15 – 12:00 (caf), 2:30 – 4:00 (virus lab)  
W: 2:30 – 4:00 (virus lab)  
R: 12:00 – 1:00 (caf), 1:00 – 3:00 (virus lab)  
F: 10:30 - 11:15 (virus lab), 11:15 – 12:00 (caf), 2:30 – 4:00 (virus lab)

#### **Books:**

*Gray Day* by Eric O'Neill

*Security Engineering* by Ross Anderson. Second + Third editions; it's free (mostly), posted by the author, online: <http://www.cl.cam.ac.uk/~rja14/book.html>

#### **Course Description:**

This course provides an overview of modern topics in information and computer security, including: network security, web security, compliance and operational security, threats and vulnerabilities, privacy and anonymity, application, data and host security, access control and identity management, cryptography. This class includes theoretical analysis and hands-on activities. Alternating Years. Offered 2017-18

#### **Learning Outcomes:**

Students will be able to apply their technical knowledge to solve problems.  
Students will analyze the interaction between hardware and software.  
Students will be able to gather relevant information, examine information and form a conclusion based on that information.  
Students will be able to understand and create arguments supported by quantitative evidence, and they can clearly communicate those arguments in a variety of formats.  
Students will be able to speak about their work with precision, clarity and organization.  
Students will be able to write about their work with precision, clarity and organization.

**Department Mission:**

The Mathematical, Information, and Computer Sciences department at Point Loma Nazarene University is committed to maintaining a curriculum that provides its students with the tools to be productive, the passion to continue learning, and Christian perspectives to provide a basis for making sound value judgments.

**Additional Course Information:**

**Missed Classes:** Homework/Quizzes/Exams missed due to PLNU excused absences (i.e., sports teams, choirs, etc), can be made up. Missed Quizzes/Exams/etc. due to emergencies can be made up once the dean of students informs Dr. Mood that PLNU has approved the reason. Non-emergency missed exams will result in a zero. It is the student’s responsibility to inform the professor of when they will be gone. Missed class activities, which are due to a non-dean of students approved-emergency situation, will result in a zero.

**Cheating:** Unless otherwise noted, talking and working with fellow students to understand concepts is OK. However, copying code from another student (or giving your code to another student) is not acceptable and can result in a staggering penalty of -100% on whatever assignment/exam it was. Although sharing code seems a “nice” to help a friend, the penalty applies to all involved. **Do not share your code with anymore. Do not let someone look at your code.** If you use online resources, you must site the direct URLs in the labs you turn in.

**Grading:**

Other assignments/Quizzes	40%
Midterm	30%
Final	30%

Grading scale

93 – 100%	A
90 – 92%	A-
87 – 89%	B+
83 – 86%	B
80 – 82%	B-
77 – 79%	C+

73 – 76%	C
70 – 72%	C-
67 – 69%	D+
63 – 67%	D
60 – 62%	D-
0 – 59%	F

## **PLNU Policies**

### **STATE AUTHORIZATION**

State authorization is a formal determination by a state that Point Loma Nazarene University is approved to conduct activities regulated by that state. In certain states outside California, Point Loma Nazarene University is not authorized to enroll online (distance education) students. If a student moves to another state after admission to the program and/or enrollment in an online course, continuation within the program and/or course will depend on whether Point Loma Nazarene University is authorized to offer distance education courses in that state. It is the student's responsibility to notify the institution of any change in his or her physical location. Refer to the map on [State Authorization](#) to view which states allow online (distance education) outside of California.

### **PLNU COPYRIGHT POLICY**

Point Loma Nazarene University, as a non-profit educational institution, is entitled by law to use materials protected by the US Copyright Act for classroom education. Any use of those materials outside the class may violate the law.

### **CREDIT HOUR**

In the interest of providing sufficient time to accomplish the stated course learning outcomes, this class meets the PLNU credit hour policy for an 3 unit class delivered over 15 weeks. Specific details about how the class meets the credit hour requirements can be provided upon request.

### **PLNU ACADEMIC HONESTY POLICY**

Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. Academic dishonesty is the act of presenting information, ideas, and/or concepts as one's own when in reality they are the results of another person's creativity and effort. A faculty member who believes a situation involving academic dishonesty has been detected may assign a failing grade for that assignment or examination, or, depending on the seriousness of the offense, for the course. Faculty should follow and students may appeal using the procedure in the university Catalog. See [Academic Policies](#) for definitions of kinds of academic dishonesty and for further policy information.

### **PLNU ACADEMIC ACCOMMODATIONS POLICY**

PLNU is committed to providing equal opportunity for participation in all its programs, services, and activities. Students with disabilities may request course-related accommodations by contacting the

Educational Access Center (EAC), located in the Bond Academic Center ([EAC@pointloma.edu](mailto:EAC@pointloma.edu) or 619-849-2486). Once a student's eligibility for an accommodation has been determined, the EAC will issue an academic accommodation plan ("AP") to all faculty who teach courses in which the student is enrolled each semester.

PLNU highly recommends that students speak with their professors during the first two weeks of each semester/term about the implementation of their AP in that particular course and/or if they do not wish to utilize some or all of the elements of their AP in that course.

Students who need accommodations for a disability should contact the EAC as early as possible (i.e., ideally before the beginning of the semester) to assure appropriate accommodations can be provided. It is the student's responsibility to make the first contact with the EAC.

## **PLNU ATTENDANCE AND PARTICIPATION POLICY**

Attendance is expected at each class session. In the event of an absence you are responsible for the material covered in class and the assignments given that day.

Regular and punctual attendance at all class sessions is considered essential to optimum academic achievement. If the student is absent for more than 10 percent of class sessions, the faculty member will issue a written warning of de-enrollment. If the absences exceed 20 percent, the student may be de-enrolled without notice until the university drop date or, after that date, receive the appropriate grade for their work and participation.

## **CLASS ENROLLMENT**

It is the student's responsibility to maintain his/her class schedule. Should the need arise to drop this course (personal emergencies, poor performance, etc.), the student has the responsibility to follow through (provided the drop date meets the stated calendar deadline established by the university), not the instructor. Simply ceasing to attend this course or failing to follow through to arrange for a change of registration (drop/add) may easily result in a grade of F on the official transcript.

## **FINAL EXAM**

The final exam date and time is set by the university at the beginning of the semester and may not be changed by the instructor. This schedule can be found on the university website and in the course calendar. No requests for early examinations will be approved. Only in the case that a student is required to take three exams during the same day of finals week, is an instructor authorized to consider changing the exam date and time for that particular student.

## **SPIRITUAL CARE**

Please be aware PLNU strives to be a place where you grow as whole persons. To this end, we provide resources for our students to encounter God and grow in their Christian faith.

If students have questions, a desire to meet with the chaplain or have prayer requests you can contact the [Office of Spiritual Development](#).

## Tentative Schedule

Monday	Tuesday	Wednesday	Thu	Friday
Jan: 10	11: Intro Chapter 1 SE2	12: Read Gray Day time = not meeting	13:	14 Chapter 1 SE
<b>17 (no classes)</b>	18	19 Gray Day 1-8	20	21 Gray Day 9-16
24 Gray Day 16-23	25	26 Gray Day 24 - end	27	28  Chapter 2 THIRD
31 Chapter 2 THIRD	1	2 Chapter 2 SE	3	4 Chapter 2 SE
7 Chapter 2 SE	8	9 Chapter 3 SE	10	11 Chapter 3 SE
14 Chapter 4 SE	15	16 Chapter 4 SE	17	18 Chapter 5 SE
21 Chapter 5 SE	22	23 Chapter 5 SE	24	25 <b>Midterm</b>
28 NDSS	1	2 NDSS	3	4 Chapter 6 SE
<b>7 (spring break)</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13 (spring break)</b>
14 Chapter 7 SE	15	16 Chapter 8 SE	17	18 Chapter 8 SE
21 Chapter 9 SE	22	23 Chapter 10 SE	24	25 Chapter 10 SE
28 Chapter 11 THIRD	29	30 Chapter 11 THIRD	31	1 Kali
4 Kali	5	6 Kali	7	8 Kali
11 Chapter 19 THIRD	12	13 Chapter 20 THIRD	14 <b>EASTER</b>	15 <b>EASTER</b>
18 <b>EASTER</b>	19	20 Chapter 20 THIRD	21	22 Chapter 22 THIRD

25 Chapter 22 THIRD	26	27 Chapter 22 THIRD	28	29 Review
2	3	4	5	6 <b>FINAL</b>