

## **LSP 121–106: Quantitative Reasoning and Technology Literacy II Section P**

**Autumn 2013-2014**

**Tu Th 11:20 am – 12:50 pm**

**Mary Jo Davidson, PhD**  
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**Classroom – Levan Room 306 – Lincoln Park Campus**

**Lab Assistant –**

**Office Hours: Tue and Thur 2:45 → 5:00 pm in SAC 235 (lab)**

**No appointments are required for office hours.**

### **Summary**

In this course, students will study issues in the sciences, social sciences, and management in which quantitative data play a significant role.

- A variety of analytical approaches will be explored, including numerical, graphical, verbal/logical, and algebraic.
- Major topics will include
  - statistics / probability,
  - databases, and
  - algorithms / computer programming.
- Extensive use will be made of computer tools such as MS-Access, SPSS, programming environments, MS-Word, MS-Excel, and the Internet.

### **Prerequisites**

- Passing grade in LSP 120 or ( BMS 125 or 126, MAT 147 or 148 or 49, MAT 150 or 151 or 152, MAT 160 or 161 or 162, or MAT 170 or 171 or 172 or MAT 242 )
- or successful completion of the MTL1 Proficiency Exam

**Tentative Class Schedule - Subject to Change**

|                  |                                |                                      |
|------------------|--------------------------------|--------------------------------------|
| Sessions 1 - 8   | Sep 12,17,19,24,26 Oct 1,3,8   | Basics & Statistics/Probability      |
| Session 9        | Oct 10                         | Basics & Statistics/Probability Exam |
| Sessions 10 - 15 | Oct 15,17,22,24,29,31          | Databases                            |
| Session 16       | Nov 5                          | Databases Exam                       |
| Session 17 - 20  | Nov 7,12,14,19                 | Algorithms/Computer Programming      |
| Session 21       | Tuesday Nov 26 11:45 am → 2 pm | Algorithms/Computer Programming Exam |

**Textbooks and Other Resources**

There is no required textbook

**Electronic Resources Students Must Have**

Students will need the following electronic resources:

- Place to store your work (Flash drive, “cloud” account)
- Access to the software (personal or from DePaul Lab) we will be using at the desk top
  - MS-Access (2010),
  - MS-Word (2010),
  - MS-Excel (2010),
  - SPSS (available at DePaul labs),
  - file-compression software(e.g. WinZip)
  - pdf reader software (e.g. Adobe Reader)

**Grading Policy**

Grades will be based on the numbers of points earned by the student during the quarter. Approximately 1000 points will be available.

***Grading Scale - Based on 1000 Possible Points***

Grade Mapped to Points Earned :

- A 930 and above
- A- 929-900
- 
- B+ 899-870
- B 869-830
- B- 829-800
- 
- C+ 799-770
- C 769-730
- C- 729-700
- 
- D+ 699-670
- D 669-600
- 
- F 599 and below

***Sources of Points (approximate)***

- 55% Exams (There will be three exams)
- 20% Individual Homework Assignments
- 15% Team Assignments (including evaluation of participation by team members)
- 10% Class Contribution (Attendance and participation)

***An expanded description of each Source of Points:******Exams***

There will be three exams, all given during class time. Each exam will cover a different class segment – Statistics/Probability, Databases, or Algorithms/Computer Programming. Exams are not cumulative.

There are no makeup exams in this course. If you cannot take an exam due to illness or family emergency, you must inform me before the exam by email.

Students must complete all three exams.

The last exam will be given on Tuesday, November 26 from 11:45 am to 2:00 pm and you must complete the exam during that time.

*Individual Homework Assignments*

During many weeks there will be an assignment to be completed by each student outside of class. The purpose of these assignments is to give individual outside-of-class practice on the skills we are learning and to explore some ideas more thoughtfully and deeply. These assignments also provide the opportunity to complete work similar to exam problems. The assignments will be available as D2L dropboxes.

Individual homework assignments must be done individually and submitted via D2L. (See also *Plagiarism and Cheating*)

Assignment due dates are stated on D2L as part of the information about the dropbox. Any student who submits an assignment after the due date will be assessed a penalty.

Late submissions of individual homework assignments will lose 20% per day, during the five days after the due date and will not be accepted after that (0 credit).

*Team Assignments*

Each student in this class will be a member of a team. Each student will be assigned to a team on the first day of class.

Team assignments will be part of the work completed by all students. These team assignments will be available via D2L dropboxes.

There will be two D2L dropboxes for each team assignment...a workspace dropbox and a Final dropbox.

Team members may use the workspace dropbox to collaborate, adding their versions of the assignments to the dropbox, reviewing the work submitted by other team members, and creating (or choosing) a final version of the assignment to submit to Dr. D. for evaluation/grading. Any number of files can be added to/contained in the workspace dropbox. It will important for the team to agree on ways to organize the contents of the dropboxes and communicate with one another on that. Without organization, the workspace dropbox could turn into a complete mess and make collaboration very difficult.

Once the final version of the team assignment has been created, one member of the team must submit the file to the Final dropbox for that team assignment. That version will be graded and any feedback for the team will be posted to the Final dropbox for that assignment. Only one file will be accepted in the Final dropbox. Each submission to that dropbox will overwrite any prior file that had been submitted.

Each team assignment submission must include the name of the team and the name of each group member who participated in the assignment.

All team participants will receive the same grade (number of points) for a team assignment, unless he or she did not contribute to completion of the assignments, as reported in the submission. Team members not included in the participants list on the final submission will receive 0 points for the assignment.

All class members will be expected to contribute to team assignments. At the end of the quarter, team members will be asked to evaluate the contributions of their team mates as a part of the grading process.

While it may be tempting to divide the work of the team assignment so that each team member completes a portion of the assignment and the parts are consolidated before submission, this division is not a good learning strategy. Either all team members should work through the team assignment together during class or each team member should complete the entire team assignment, then work with all team members in class to prepare a team solution to the assignment. Time will be set aside during class sessions to allow the teams to work together on the assignment. Teams should remain in the classroom during the class time allowed for team work.

No late team work will be accepted.

### *Class Attendance and Contribution*

Class attendance and participation are important. During each class session a sign-in sheet will be circulated in class. You will receive points for each class session you attend. You will not receive points for the class if you are absent for any reason. There are no “excused” absences. It is the student's responsibility to make sure that they personally sign the sheet each day they attend class. (See also *Plagiarism and Cheating*)

Class participation goes beyond attendance. Students will be expected to prepare for class by completing assigned readings in order to ask relevant questions in class and contribute to class discussions.

### **Desire To Learn (D2L)**

The Desire To Learn website <http://d2l.depaul.edu> is a secure site for course management. It contains all class materials. You must use your CampusConnect ID to login to D2L. DePaul technology support staff recommends the Mozilla Firefox browser for use with D2L.

We will be using the Home, Content, Checklist, Classlist, Discussions, Dropbox and Grades components of D2L. See the D2L Intro file (found in the D2L Content | Start Up and Basics section) for more details on these components.

An agenda for each class session will be available on D2L | Content. The session agenda will list lecture notes to be covered for that class, as well as reminders and other items. If you must miss a class, you should consult the agenda for that class session to determine what you must do to catch up with the rest of the class.

You will find pdf versions of the lecture notes for each class session on D2L |Content. In most cases, there will be two versions of the lecture notes – a full slide version (one slide per page) and handout version (four slides per page). These pdf files can be downloaded and/or printed to give the student an outline of the material to be covered as well as providing a place to take notes during class.

You will also use D2L dropboxes to find assignment descriptions, submit assignments, and receive feedback on them.

It is each student’s responsibility to make sure that work they have submitted to D2L can be accessed/ read by the instructor via the software version being used in class (Office 2010). This will be particularly important for students who use Mac, Open Office, or other software.

## **Your Email Address**

Email is the primary means of communication between faculty and students enrolled in this course outside of class time. Students should be sure their email listed under "demographic information" at <http://campusconnect.depaul.edu> is correct.

## **Email to your Professor**

When sending e-mail to Dr. Davidson, please include your name and the class ID (LSP121 - P) in the subject of the email.

## **Pay Attention in Class**

During class, students must turn off all personal electronic devices not used for class work.

This includes, but is not limited to:

- Cell phones
- iPods and other mp3 players

Students may use electronic devices such as personal computers and PDAs during class, if that use is for LSP121 class purposes. For example, taking class notes or updating a schedule would be permitted.

Using Facebook or other social networking sites, playing games, texting, working on other classes, checking email, surfing the Web, etc. are not permitted.

Please limit your classroom entries and exits while a lecture is in progress.

## **Academic Integrity Policy**

This course will be subject to the Academic Integrity Policy described at <http://academicintegrity.depaul.edu/>

## **Plagiarism and Cheating**

The university and school policy on plagiarism can be summarized as follows: Students in this course, as well as all other courses in which independent research or writing play a vital part in the course requirements, should be aware of the strong sanctions that can be imposed against someone guilty of plagiarism. If proven, a charge of plagiarism could result in an automatic F in the course and possible expulsion. The strongest of sanctions will be imposed on anyone who submits as his/her own work a report, examination paper, computer file, lab report, or other assignment which has been prepared by someone else. If you have any questions or doubts about what plagiarism entails or how to properly acknowledge source materials be sure to consult the instructor.

I will use the *TurnItIn* software available via DePaul University, to review written work as part of the evaluation process. This software detects evidence of plagiarism of submitted work.

Some specific examples of cheating:*Sign-In Sheet*

Any student who signs the class attendance sign-in sheet for another student not in attendance during that class session will be subject to cheating/plagiarism penalties.

*Individual Assignments*

Any student who submits an Individual Assignment by another student or prepared jointly with another student will be subject to cheating/plagiarism penalties.

*Bonus Points/Extra Credit Assignments*

Any student who submits a Bonus Points or Extra Credit Assignment prepared by another student or prepared jointly with another student will be subject to cheating/plagiarism penalties.

**Incomplete**

An incomplete grade is given only for an exceptional reason such as a death in the family, a serious illness, etc. at the end of the quarter. Any such reason must be documented. Any incomplete request must be made at least two weeks before the final, and approved by the Dean of the College of Computing and Digital Media. Any consequences resulting from a poor grade for the course will not be considered as valid reasons for such a request.

**Disabled Student Resources**

Students who feel they may need an accommodation based on the impact of a disability should contact the instructor privately to discuss their specific needs. All discussions will remain confidential.

To ensure that you receive the most appropriate accommodation based on your needs, contact the instructor as early as possible in the quarter (preferably within the first week of class), and make sure that you contact the Center for Students with Disabilities (CSD) at:

Student Center, LPC, Suite #370  
Phone number: (773)325.1677  
Fax: (773)325.3720  
TTY: (773)325.7296

**Online Instructor Evaluation**

Course and instructor evaluations are critical for maintaining and improving course quality. To make evaluations as meaningful as possible, we need 100% student participation. Therefore, participation in the School's web-based academic administration initiative during the eighth and ninth week of this course is a requirement of this course. Failure to participate in this process will result in a grade of incomplete for the course. This incomplete will be automatically removed within seven weeks after the end of the course and replaced by the grade you would have received if you had fulfilled this requirement.

# LSP121 - Reading Assignments for Autumn 2014

All assigned readings are available on D2L.

## Basics, Statistics, and Probability

|                                |              |
|--------------------------------|--------------|
| Basics – Texting vs Your GPA   | September 17 |
| Statistics - ST1, ST2, and ST3 | September 19 |
| Statistics – ST4               | September 24 |
| Probability – PR1              | September 25 |

## Databases

|                                      |            |
|--------------------------------------|------------|
| Read DB1, DB2, DB3, DB4, and DB5     | October 16 |
| Read DB5. Skim DB2, DB6, DB7 and DB8 | October 21 |

## Algorithms and Computer Programming

|                           |             |
|---------------------------|-------------|
| Read pages 1-8 of CP1     | November 12 |
| Skim the remainder of CP1 | November 15 |

## LSP121 - Due Dates for Autumn 2014 – Section P

### Basics, Statistics, and Probability

|          |             |                                    |
|----------|-------------|------------------------------------|
| Team 100 | Sep 19 (TH) | Team Organization                  |
| Ind 0    | Sep 19 (TH) | Student Survey                     |
| Team 101 | Sep 23 (MO) | Statistics - Excel                 |
| Team 102 | Sep 26 (TH) | Statistics - SPSS                  |
| Team 103 | Oct 3 (TH)  | Probability                        |
| Ind 1    | Oct 3 (TH)  | Statistics - SPSS                  |
| Ind 2    | Oct 6 (SU)  | Probability                        |
| Exam 1   | Oct 10 (TH) | Basics, Statistics and Probability |

### Databases

|          |             |          |
|----------|-------------|----------|
| Team 104 | Oct 19 (SA) | Database |
| Ind 3    | Oct 29 (TU) | Database |
| Exam 2   | Nov 5 (TU)  | Database |

### Algorithms and Computer Programming

|          |                             |                                     |
|----------|-----------------------------|-------------------------------------|
| Team 105 | Nov 11 (MO)                 | Algorithm                           |
| Ind 4    | Nov 17 (SU)                 | Algorithms and Computer Programming |
| Exam 3   | Tuesday Nov 26 11:45 → 2 pm | Algorithms and Computer Programming |

### Wrap-up

|       |             |                        |
|-------|-------------|------------------------|
| Ind 5 | Nov 19 (TU) | Reflection Essay       |
| Ind 6 | Nov 19 (TU) | Team Member Evaluation |

# September 2013 (United States)

October 2013

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    | 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 |    |    |

Sections N and P

| Sun | Mon         | Tue | Wed | Thu               | Fri | Sat |
|-----|-------------|-----|-----|-------------------|-----|-----|
| 1   | 2 Labor Day | 3   | 4   | 5                 | 6   | 7   |
| 8   | 9           | 10  | 11  | 12                | 13  | 14  |
| 15  | 16          | 17  | 18  | 19                | 20  | 21  |
|     |             |     |     | Team 100<br>Ind 0 |     |     |
| 22  | 23          | 24  | 25  | 26                | 27  | 28  |
|     | Team 101    |     |     | Team 102          |     |     |
| 29  | 30          | 1   | 2   | 3                 | 4   | 5   |

# October 2013 (United States)

November 2013

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    | 1  | 2  |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

| Sun        | Mon             | Tue         | Wed | Thu                    | Fri | Sat            |
|------------|-----------------|-------------|-----|------------------------|-----|----------------|
| 29         | 30              | 1           | 2   | 3<br>Team 103<br>Ind 1 | 4   | 5              |
| 6<br>Ind 2 | 7               | 8           | 9   | 10<br>Exam 1           | 11  | 12             |
| 13         | 14 Columbus Day | 15          | 16  | 17                     | 18  | 19<br>Team 104 |
| 20         | 21              | 22          | 23  | 24                     | 25  | 26             |
| 27         | 28              | 29<br>Ind 3 | 30  | 31 Halloween           | 1   | 2              |

# November 2013 (United States)

December 2013

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 |    |    |    |    |

| Sun  | Mon   | Tue  | Wed | Thu                                | Fri | Sat |
|--|---|--|-----|------------------------------------|-----|-----|
| 27   | 28  | 29   | 30  | 31 <small>Halloween</small>        | 1   | 2   |
| 3  | 4   | 5<br><div style="border: 1px solid red; padding: 5px; display: inline-block;">Exam 2</div>           | 6   | 7                                  | 8   | 9   |
| 10   | 11 <small>Veterans Day</small><br><div style="border: 1px solid red; padding: 5px; display: inline-block;">Team 105</div> | 12   | 13  | 14                                 | 15  | 16  |
| 17<br><div style="border: 1px solid red; padding: 5px; display: inline-block;">Ind 4</div> | 18  | 19<br><div style="border: 1px solid red; padding: 5px; display: inline-block;">Ind 5<br/>Ind 6</div> | 20  | 21                                 | 22  | 23  |
| 24   | 25  | 26<br><div style="border: 1px solid red; padding: 5px; display: inline-block;">Exam 3</div>          | 27  | 28 <small>Thanksgiving Day</small> | 29  | 30  |