Instructor Name: Philip Chan              Phone: 321-674-7280
Office Location: 209 Harris Center        Email: pkc@cs.fit.edu
Office Hours: MW 11am-1pm

Teaching Assistants:
Cameron Miskell, cmiskell2020@my.fit.edu, 211 Harris Center, office hours: Thu 11-noon & 2-3pm
Mohammed Khan, mkhan@my.fit.edu, 211 Harris Center, office hours: Wed 3-5pm

Course website: https://cs.fit.edu/~pkc/classes/ds/

Course Objectives
1. understand basic data structures
2. understand basic algorithms
3. understand basic analysis of algorithms

Required Texts / Materials:

Required Training (if applicable): Pre-requisites
- CSE 1001 and 1002: Familiar with a high-level programming language.
- CSE 1400 / MTH 2051: Discrete Math.

Grading Policy (including late work policy):
- 6 homework assignments (40%), term project (10%)
- Test 1 (15%), Test 2 (15%) & Final Exam (20%)
- A: 90%, B: 80%, C: 70%, D: 60%
- Late assignments are accepted, but 20% is deducted for each day.

Course Attendance Policy:
- students are expected to attend lectures and labs

Where to Find Extra Help:
- CS Help Desk: https://cs.fit.edu/~pkc/dept/csHelpDesk.html

- Students are encouraged to help each other on assignments, but plagiarism (copying) is prohibited.
  - first violation: zero on assignment/test
  - second violation: 'F' for the course

Title IX Statement: The university’s Title IX policy is available at https://www.fit.edu/policies/title-ix/

Title IX of the Education Amendments of 1972 is a federal civil rights law that prohibits discrimination on the basis of sex in federally funded education programs and activities. Florida Institute of Technology policy also prohibits discrimination on the basis of sex.

Florida Tech faculty are committed to helping create a safe learning environment for all students that is free from all forms of discrimination and sexual harassment, including sexual assault, domestic violence, dating violence, and stalking. If you, or someone you know, have experienced or is experiencing any of these behaviors, know that help and support are available.

Florida Tech strongly encourages all members of the community to take action, seek support, and report any incident of sexual harassment or gender discrimination to Dennis Kwarteng, Title IX Coordinator at 321-309-3068, dkwarteng@fit.edu, John E. Miller Office Building (401QAD), Room: 137.

Please note that as your professor, I am required to report any incidents to the Title IX Coordinator.

If you wish to speak to an employee who does not have this reporting responsibility, please contact the Student Counseling Center at 321-674-8050.

Academic Accommodations: Florida Tech is committed to equal opportunity for persons w/disabilities in the participation of activities operated/sponsored by the university. Therefore, students w/documented disabilities are entitled to reasonable educational accommodations. The Office of Accessibility Resources (OAR) supports students by assisting w/accommodations, providing recommended interventions, and engaging in case management services. It is the student’s responsibility to make a request to OAR before any accommodations can be approved/implemented. Also, students w/approved accommodations are encouraged to speak w/the course instructor to discuss any arrangements and/or concerns relating to their accommodations for the class.

Office of Accessibility Resources (OAR):
- Phone: 321-674-8285
- Email: accessibilityresources@fit.edu
- Website: https://www.fit.edu/accessibility-resources

Recording Disclosure (Privacy Waiver): This course may be recorded for use by students and/or faculty. Enrolled students are subject to having their images and voices recorded during the classroom
presentations, remote access learning, online course discussions, and remote office hours/meetings. Course participants should have no expectation of privacy regarding their participation in this class. Recordings may **not** be reproduced, shared with those not registered in the courses, or uploaded to other online environments. All recordings will be deleted at the conclusion of the academic term.

**Anticipated Weekly Subject Matter and Assignment Schedule:**

<table>
<thead>
<tr>
<th>Week</th>
<th>Weekly Topic</th>
<th>Assignment</th>
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</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Arrays and linked lists (Ch3)</td>
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<tr>
<td>Week 2</td>
<td>Analysis of Algorithms (Ch4)</td>
<td></td>
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<tr>
<td>Week 3</td>
<td>Recursion (Ch5)</td>
<td>Sep 7: HW1 due</td>
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<tr>
<td>Week 4</td>
<td>Stacks and Queues (Ch6)</td>
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<tr>
<td>Week 5</td>
<td>Trees (Ch8)</td>
<td>Sep 21: HW2 due</td>
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<tr>
<td>Week 6</td>
<td>Trees (Ch8)</td>
<td>Sep 27: Test 1</td>
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<tr>
<td>Week 7</td>
<td>Priority Queues (Ch9)</td>
<td>Oct 5: HW3 due</td>
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<tr>
<td>Week 8</td>
<td>Maps and Hashing (Ch10)</td>
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<tr>
<td>Week 9</td>
<td>Sorted/Ordered Maps (Ch10)</td>
<td>Oct 19: HW4 due</td>
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<tr>
<td>Week 10</td>
<td>Graphs (Ch14)</td>
<td>Oct 25: Test 2</td>
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<tr>
<td>Week 11</td>
<td>Graphs (Ch14)</td>
<td>Nov 2: HW5 due</td>
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<td>Week 12</td>
<td>Text Processing (Ch13)</td>
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<tr>
<td>Week 13</td>
<td>Text Processing (Ch13)</td>
<td>Nov 16: HW6 due</td>
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<td>Week 14</td>
<td>Search Trees (Ch11)</td>
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<tr>
<td>Week 15</td>
<td>Search Trees (Ch11)</td>
<td>Nov 30: term project: initial</td>
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<td>Week 16</td>
<td>Sorting (Ch12 MergeSort, QuickSort)</td>
<td>Dec 7: term project</td>
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This schedule is subject to change at the instructor's discretion.

**FINAL EXAM Information: Dec 11 (Mon), 6-8pm**