

# School of Science and Technology

# ITEC2140 Programming Fundamentals SPRING 2020

## Instructor Information

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### Communication

#### Communication with Me

I prefer to have face-to-face conversations with you, whenever possible. You are welcome to come by my tutoring hours posted at [the ITEC tutoring site (http://wiki.ggc.edu/wiki/ITEC\_Tutoring)](file:///C:\Users\Hyesung\Documents\GGC\SPRING%202018\wei%20jin%202140%20syllabus\the%20ITEC%20tutoring%20site%20(http:\wiki.ggc.edu\wiki\ITEC_Tutoring)) (see the last section “Fall 2019 Programming Study Groups”).

The fastest way to conect with me is via GGC email. I am happy to set up a face-to-face meeting with you, when possible beyond the tutoring hours. However, we may need to establish a time and place via email or by phone.

At any time you can contact me by email, text message or voicemail on my GGC cell phone. Communications received Monday through Thursday after 5pm EST will be returned by the next day. On the weekend or when I am away from campus (i.e., at a conference), my response may be irregular.

When corresponding by email, I will communicate with you using only your GGC email. You should check your GGC email at lease twice a day. Emails from other domains (yahoo.com, gmail.com, hotmail.com, etc.) will not receive replies due to the Family Educational Rights and Privacy Act (FERPA).

When you email me, you should consider the email as official correspondence. As such, the email should not appear as a text message but should have proper grammar and punctuation.

You should also check your Brightspace (Desire2Learn) course site every day as well.

#### Technology Covenant

Technology will be used to deliver content, provide resources, assess learning, and facilitate interaction, both within the classroom and in the larger learning community. This covenant provides a general guideline for the course. I reserve the right to make periodic and/or necessary changes to the covenant, including: technology use and communication channels, in order to accommodate the needs of the class as a whole and fulfill the goals of the course.

#### Expectations of Students

All students at GGC need to have access to a computer. If you do not have one, computer labs (such as A1500 and CG360) are available on campus.

Students should check GGC email regularly (at least twice a day).

Cell phones should be set on silent and stowed during class.

Laptop computers should remain off, except when they are being used for an in-class activity or for taking notes.

All completed assignments will be submitted through Brightspace (Desire2Learn). Unless otherwise specified, daily assignments must be submitted by the end of the class or latest by the end of the day. Major assignments/projects are due by 11:30pm on the due date unless other arrangements are made.

## Course Information

### Class Details

Course Details: ITEC2140, Section 07, 4 Credit Hours

Class Time: MWF 12:30 pm – 1:45 pm

Course Location: A - 1750

### Course Description

This course is recommended for ITEC Majors and Minors only. An introduction to concepts, principles and skills of programming. Upon completion of this course students will: 1) understand the evolution of computer languages (from machine code to object-oriented); 2) understand the concept of the coding process and code manipulation; 3) analyze real world problems and design algorithmic and programming solutions; 4) understand the general ideas of classes and objects as elements of a programming environment; 5) know general ideas about conditional expressions, functions and control structures; 6) prepare, execute and debug program code within an interactive programming environment; 7) demonstrate a consistent and readable programming style.

### Course Prerequisites

* [ITEC 1001](http://catalog.ggc.edu/content.php?filter%5B27%5D=ITEC&filter%5B29%5D=2140&filter%5Bcourse_type%5D=-1&filter%5Bkeyword%5D=&filter%5B32%5D=1&filter%5Bcpage%5D=1&cur_cat_oid=1&expand=&navoid=16&search_database=Filter#tt9022) (Introduction to Computing) or Pass on the ITEC1001 Proficiency Exam
* [ENGL 0999](http://catalog.ggc.edu/content.php?filter%5B27%5D=ITEC&filter%5B29%5D=2140&filter%5Bcourse_type%5D=-1&filter%5Bkeyword%5D=&filter%5B32%5D=1&filter%5Bcpage%5D=1&cur_cat_oid=1&expand=&navoid=16&search_database=Filter#tt9555) (Student Success Pre-College Composition) or be eligible for ENGL 1101
* MATH 1111 (College Algebra) or tested into Pre-Calc or above

### Course Resources

#### Required Texts

*Programming Fundamentals -* [*http://itec2140.ddns.net*](http://itec2140.ddns.net)

***Mimir*** - <https://www.mimirhq.com/>

Reference Texts (Not required)

*Introduction to Java Programming and Data Structures* with Pearson, 10th Edition  
Publisher: Pearson  
Author: Y. Daniel Liang

#### Additional Resources

You will need to use Dr.Java to edit and run your program. For step-by-step instructions on how to set it up on your personal machine, go to <http://drjava.sourceforge.net/>. Select “QuickStart Guide” on the left-hand side under “Resources”.

### Course Outcomes

Upon completion of this course, students will:

1. understand the evolution of computer languages (from machine code to object-oriented)
2. understand the concept of the coding process and code manipulation
3. analyze real world problems and design algorithmic and programming solutions
4. understand the general ideas of classes and objects as elements of a programming environment
5. know general ideas about conditional expressions, functions, and control structures
6. prepare, execute and debug program code within an interactive programming environment
7. demonstrate a consistent and readable programming style

### Course Requirements and Grading

You can expect to access the course materials and grades via our course in Brightspace (Desire to Learn). Students should check this Brightspace daily, as course changes will always be announced and recorded on the course site.

Grading Scale and Passing Condition:

* ***70% or above on the Final Exam (Also must get 70% or above on the quizzes/exams from chapter 3)***
* ***Your final score is not based on the average but based on the instructor’s decision (e.g. If you did well on the homework, in class projects, but failing on exams/quizzes from chapter 3, then passing grading will not be given. OR if you did not do well up to chapter 2 but you worked hard and start to show progress from the chapter 3 and average test score of chapters 4,5,6,7is 70 or above, then you will pass and 100% sure you will do well on the final exam.)***

A (Excellent) 90-100

B (Good) 80-89

C (Fair) 70-79

D (Poor) 60-69

F (Failure) 59 and below

#### Grading Percentages

| Grading Category | Percent Weight |
| --- | --- |
| In-Class Assignments | 5% |
| Homework Assignments | 5% |
| Chapter Quizzes | 15% (Chapter 1-4: 5%,  Chapter 5-9:60%, Tests: 35%) |
| Midterm Exam | 25% |
| Final Exam | 40% |
| Attendance | 10% |

#### Late Work Policy

Late assignment submission will be accepted for four days after the deadline but you will receive **20% penalty per day** – unless there is a documented medical or family emergency that could not have been foreseen. After four days, no late assignments will be accepted for credit. You will get a zero.

#### Assessment Tools

Each exam, including the final exam, will consist of two parts. Part 1 is the multiple-choice type of questions. Part 2 is coding questions. Each part will be 50% of the total grade for that exam. Part 1 and part 2 may be administered at different class periods.

### Tentative Course Schedule (March 13: Project Day – no face-to-face class)

| Chapter | Topics | Duration (Weeks) | Dates | Exams (after each chapter) |
| --- | --- | --- | --- | --- |
| 1 | Getting Started | 1 | TBA | TBA |
| 2 | Datatype, Variables, and Expressions | 2 | TBA | TBA |
| 3 | Conditions | 2 | TBA | TBA |
| 6 | Loop | 2 | TBA | TBA |
| 4 | Mathods | 2 | TBA | TBA |
| 5 | Arrays and ArrayLists | 2.5 | TBA | TBA |
| 7 | Object Oriented Programming | 3 | TBA | TBA |

\* The schedule will be adjusted according to how the class master different concepts.

### Final Exam Details

The final exam will be given during the Final exam week. The date and time of the final exam is set by the registrar and will be posted at midterms. The exam schedule cannot be changed at the convenience of the student. You should not plan to be absent anytime during that week. A make-up final exam will only be given in cases of a verifiable excused absence.

### Course Expectations

* No make-up quizzes, exams, or final exam will be given, unless previously approved. One lowest grade from In-Class assignments, homework assignments and exams can be dropped from the total grade calculation.
* There are graded items for each class period. Class attendance is crucial for your success in the course.
* Assignments and quizzes are all to be submitted in Desire To Learn (D2L). No e-mail submissions allowed. Any assignment submitted via e-mail or e-mail attachments will not be counted and will not be included in your grades. All submissions will be in the D2L course.
* Except for the assignments that are specifically marked as group work, individual efforts are expected. Getting help is allowed, but the help cannot be simply submitting another student’s program or letting someone else to finish your work.

### Keys to Success in This Course

In order to help you succeed in this course and do your best, I will:

1. ensure that the syllabus and tentative class schedule is uploaded into D2L by first day of semester
2. give guidance on what is expected of you to succeed on quizzes, exams, and assignments
3. put grades in D2L on a timely basis, typically within two weeks
4. be on time for class
5. give you my email and cell phone number and respond to your email and phone calls in a timely manner according to technology covenant
6. meet with you outside of class if you need additional help.

In order for you to succeed in this course and do your best, you should commit yourself to:

1. checking Desire2Learn daily
2. checking GGC email at least twice a day
3. attend every class on time
4. engage in all class activities
5. complete in-class exercises, if more time is needed, by the end of the day when the exercises are assigned
6. turn in assignments on time (or ahead of time)
7. seek me out for help (if necessary) well before the assignment due date
8. do your best to prepare for quizzes and exams

### Important Dates

GGC Academic Calendar: <https://www.ggc.edu/academics/calendar/>

### Course Changes

This course syllabus provides a general plan for this course. The instructor reserves the right to make changes to the syllabus, including changes to assignments, projects, examinations, etc., in order to accommodate the needs of the class as a whole and fulfill the goals of the course.

## School of Science and Technology

### Vision/Mission Statement

The School of Science and Technology will become recognized in the region and the state for excellence in STEM education at an open access institution.  SST Faculty will provide effective and relevant courses and programs in science, math, and technology which are characterized by interdisciplinary learning, novel use of educational technology, and an active learning environment that stimulates critical thinking.

### School Policies

#### Class attendance and Financial Aid

Please be aware that faculty check attendance in each of your courses and are required to report to the Registrar students who never attend or cease attending a course. Students who are reported as never attended or have ceased attending a course, Financial Aid will be notified and is required to adjust your financial aid award accordingly. If you have any questions about how not attending a course for which you are registered will affect your financial aid eligibility, please contact the Financial Aid Office.

#### Make-up Exam Policy

You are expected to attend every class. Failure to attend class will affect your grade.  
Special arrangements to take a regular exam early must be made in advance in writing. Early exams are available only at the instructor’s discretion and only under extreme circumstances.  
IF an emergency arises and you miss an exam you MUST notify me on the same DAY as the exam. Notification by email, text or phone message is acceptable. Any make-up work may have a different format or different content from the regular assignment. Make-up work should be completed within two days of the original due date. Work missed due to unexcused absences will be given a grade of zero.

Note: Lab Practical Exams CANNOT be rescheduled!

If you feel that you are unable to complete your courses due to illness or family emergency, contact the Registrar’s Office to attempt to withdraw from your courses without penalty.

#### Final Exam

The final exam will be given sometime during finals week as specified by the registrar. The date and time of the final exam is set by the registrar and will be posted. The exam schedule cannot be changed at the convenience of the student. You should not plan to be absent anytime during that week. A make-up final exam will only be given in cases of a verifiable excused absence.

### School/Program Outcomes

#### Integrated Educational Experience Goals:

**The IEE Goals met by the objectives of this course are in bold/strong format:**

**IEE-1  Clearly communicate ideas in written and oral form.**

**IEE-2   Demonstrate creativity and critical thinking in inter- and multi-disciplinary contexts.**

**IEE-3   Demonstrate effective use of information technology.**

**IEE-4  Demonstrate an understanding of diversity and global perspectives leading to collaboration in diverse, global contexts.**

IEE-5   Demonstrate an understanding of human and institutional decision making from multiple perspectives.

IEE-6   Demonstrate an understanding of moral and ethical principles.

IEE-7   Demonstrate and apply leadership principles.

**IEE-8   Demonstrate competence in quantitative reasoning.**

## Georgia Gwinnett College Policies

### Academic Respect

The college exists to foster educational excellence. To this end, a classroom atmosp that supports learning must be maintained. Students are expected to be active, attentive participants in the class. Students are also expected to abide by class policies and procedures and to treat faculty and other students in a professional, respectful manner. Students are expected to be familiar with the student conduct code published in the [Student Handbook](http://www.ggc.edu/student-life/get-involved-on-campus/student-affairs/student-handbook/), page 31.

### Americans with Disabilities Act Statement

Georgia Gwinnett College will provide reasonable accommodation to employees, applicants for employment, students, and patrons who have physical and/or mental disabilities, in accordance with applicable statutes. Georgia Gwinnett College will take affirmative action to employ and advance in employment persons who are qualified disabled veterans, veterans of the Vietnam Era, or other covered veterans.  If you are a student who is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please seek assistance through the [Office of Disability Services](http://catalog.ggc.edu/content.php?catoid=1&navoid=22&hl=disabilities&returnto=search#disability-services). A CDS Counselor will coordinate those services.

For more information, refer to the [Americans with Disabilities Act Policy](http://www.ggc.edu/community/diversity_institutional-equity_title-ix/diversity_institutional-equity_title-ix_policy/#ada).

### Attendance Policy

The classroom experience is a vital component of the college learning experience. Interaction with instructors and with other students is a necessary component of the learning process. Students are expected to attend regularly and promptly all class meetings and academic appointments. Students who are absent from classes bear the responsibility of notifying their instructors and keeping up with class assignments in conjunction with instructor provisions in the course syllabus. An individual instructor bears the decision as to whether a student’s absence is excused or unexcused and whether work will be permitted to be made up; the decision of the instructor in this case is final. Students who are absent because of participation in college-approved activities (such as field trips and extracurricular events) will be permitted to make up the work missed during their college-approved absences, provided that the student discussed with and obtained approval from the instructor to make up the work missed prior to the student's going on the field trip.

Individual instructors may establish additional attendance requirements appropriate to their course’s context, e.g., lab attendance. A student whose class schedule would otherwise prevent him or her from voting will be permitted an excused absence for the interval reasonably required for voting.

For more information, refer to the [GGC Student Attendance Policy.](http://catalog.ggc.edu/content.php?catoid=1&navoid=23#student-attendance-policy)

### Equal Opportunity and Affirmative Action Policy

Georgia Gwinnett College ads to affirmative action policies designed to promote diversity and equal opportunity for all faculty and students.

As an equal opportunity institution, Georgia Gwinnett College is committed to nondiscriminatory practices consistent with federal and state requirements and objectives. Georgia Gwinnett College affirms its commitment to keeping its workplace and academic programs free of discrimination and harassment and maintaining an environment that recognizes the innt worth and dignity of every person.

It continues to be the policy of Georgia Gwinnett College to implement affirmative action and equal opportunity for all employees, students and applicants for employment or admission without regard to race, color, creed, religion, national origin, sex, age, sexual orientation, gender identity, pregnancy/parental status, veteran status or disability.

For more information, refer to the [GGC Equal Opportunity and Affirmative Action Policy Statement](http://www.ggc.edu/community/diversity_institutional-equity_title-ix/diversity_institutional-equity_title-ix_policy/#eoaa).

### Academic Integrity

Student Honor Statement: We will not lie, steal, or cheat, nor tolerate the actions of those who do.

Georgia Gwinnett College students are expected to ad to the highest standards of academic integrity and are expected to encourage others to do the same. Further, students are expected to take responsible action when t is reason to suspect dishonesty on the part of others.

Academic dishonesty carries severe penalties ranging from a grade of “0” on the affected assignment to dismissal from Georgia Gwinnett College. Each faculty member at Georgia Gwinnett College bears the responsibility for assigning penalties for cases of academic dishonesty. Students may appeal a penalty as outlined in the [Student Handbook](http://www.ggc.edu/student-life/get-involved-on-campus/student-affairs/student-handbook/), page 31.

### Academic Enhancement Center (AEC)—Your Pathway to Success

We encourage you to take advantage of the various academic support services we provide to all currently enrolled GGC students on campus.

#### AEC Tutors

Our trained professional and peer tutors provide 45 minute one-on-one tutoring sessions. Group tutoring sessions are also available for students with similar questions on course content. Writing tutors will tutor you at any stage of the writing process. Math/Science/ITEC/Business tutors will help you gain a better understanding of course concepts. Bring your notes, textbook, rubrics, and your assignment sheets to your tutoring session. Be prepared to answer and ask questions.

#### How to Receive Tutoring

Schedule an appointment with one of our tutors by: 1) visiting the AEC in CG360, 2) calling 678-407-5191, or 3) sending an [e-mail](mailto:aec@ggc.edu). Drop-ins are also welcomed. Visit the [AEC website](http://www.ggc.edu/aec) for the hours of operations. We stop tutoring sessions 30 minutes before closing.

For more information about the AEC and other services we provide like workshops and outline tutoring, visit the [AEC website](http://www.ggc.edu/aec), follow us on [Twitter](https://twitter.com/ggcaec) and like us on [Facebook](https://www.facebook.com/ggcaec).

Extra ITEC tutoring information can be found at [the ITEC tutoring site (http://wiki.ggc.edu/wiki/ITEC\_Tutoring](http://wiki.ggc.edu/wiki/ITEC_Tutoring). Scroll down to the last section “Spring 2017 Programming Study Groups”.

### Safety and Security

View the [GGC Safety and Emergency Communications web page](http://www.ggc.edu/about-ggc/public-safety/safety-and-emergency-communications/) for information important to you. To avoid confusion and rumor, ensure you (1) sign up for [RAVE alert text notification](https://www.getrave.com/login/ggc), (2) download the LiveSafe app for [iPhone](https://itunes.apple.com/us/app/livesafe/id653666211?ls=1&mt=8) or [Android](https://play.google.com/store/apps/details?id=com.livesafe.activities&hl=en). (3) View the 15 minute [Active Shooter Video](http://www.kaltura.com/index.php/extwidget/preview/partner_id/2022371/uiconf_id/32334692/entry_id/1_z4itrq86/embed/auto?&flashvars%5bstreamerType%5d=auto). You are the additional eyes and ears for first responders. Follow the adage, “If you see something, say something” to a GGC employee. Your community needs your increased vigilance and awareness.

### Health and Safety Policy

Certain laboratories include use of strong acids, solvents and preservatives. Any pregnant women, hypersensitive individuals, or immunocompromised people should report their condition to the instructor and to their physician, preferably before contact with the materials (see lab exercises). Additional instructions for lab will be presented during the first lab. Students are required to follow all instructions. Students failing to conform to lab rules and safety precautions will be first warned by removal from the lab. On second offense students will be removed from both lecture and lab.