



UNIVERSITY OF MINNESOTA DULUTH

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Introduction to Programming in Visual BASIC.NET

Course Number: CS 1121

Section(s): 001

Term: Spring 2025

Class Session: 001 Regular Academic Session

Class Meeting Details

Delivery mode: Online - no set time and day

Location: Online Class

Instructor Information

Steven Holtz

Office Location: 320 HH

Email Address: sholtz@umn.edu

Office Phone: 726-7664

Office/Student Drop-In Hours: MTWTh 3:30 to 4:30 PM CT

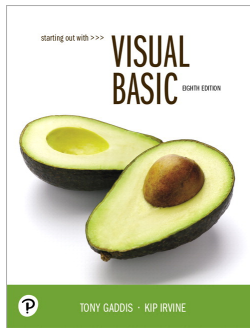
Virtual Office/Student Drop-In Hour Meeting Details: Zoom link: <https://umn.zoom.us/j/97666588013?pwd=vheGpnQap4zC09dNGOCzd9fQotGXYo.1>

Teaching Assistant Information

Samuel (Sam) Jacinth Kamal Kumar

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Required Course Materials



Starting Out With Visual Basic

ISBN: 9780135204658

Authors: Gaddis, Tony & Kip Irvine

Publisher: Pearson

Publication Date: 2020

Edition: 8th

URL: <https://media.pearsoncmg.com/bc/abp/cs-resources/products/product.html#product,isbn=0135862477>

Course Details

Catalog description: Introduction to programming in the modern Visual BASIC language. Projects are developed in a .NET environment using the Visual Studio. Includes GUI interface development and expert-driven Windows programming. Major topics include variables, datatype, arithmetic expressions, control structures, arrays and database file processing. For students with no prior programming experience. prereq: 1 yr high school algebra or instructor consent/experience. prereq: 1 yr high school algebra or instructor consent

This course fulfills the following Liberal Education Category: Logic and Quantitative Reasoning

Additional Course Details

This course has blended delivery. The lecture is online and asynchronous. The lab sessions are held in-person. The instructor will hold online ([via Zoom](#)) office hours.

Required Software

VMware Horizon Client or a Web browser to access Apps4U. Or an installed Microsoft Visual Studio Community Edition 2022 application.

Course Student Learning Outcomes

- Students will be able to create simple programs in Visual Basic.
Assessment Measure(s): Programming assignments

- Students will be able to apply basic software development techniques to simple algorithms.
Assessment Measure(s): Programming assignments and exams.
- Students will be able to analyze problem-solving situations to develop algorithms.
Assessment Measure(s): Programming assignments and exams.

Graded Course Components

The course is built of weekly modules, each weekly module building on the previous modules. There will be fifteen (15) of these weekly modules.

Points in the course are weighted across 4 categories:

Section	Weight
Final Exam	20
Quizzes (13)	30
Labs (6)	20
Project (6)	30
Total	100

Your weighted score is calculated as a sum of the percentage of the total points that you have earned (sum of the points you have earned divided by the sum of the available points) times the weight for that category, for all categories. For example, if you earn 300 out of 400 (hypothetical) on the Final Exam, then you would earn 15 weighted points for the Final Exam category of your weighted score ($300 / 400 * 20 = 15$). Other categories require sums for the numerator and denominator of the ratio.

Your two (2) lowest Quiz scores will be dropped from your total weighted score calculation. Only 11 quizzes count toward your course grade.

Course grades will be based on your total weighted score with:

- A- cutoff is at 90 weighted points
- B- cutoff is at 80
- C- cutoff is at 70
- D cutoff is at 60
- F is below a weighted score of 60

These cutoffs may be lowered but will not be raised.

Brief List of Topics to be Covered

- Introduction to Visual Basic
- Creating an Application
- Variables and Expressions
- Decision Statements
- Lists and Loops
- Procedures and Functions
- Forms, Modules, and Menus
- Arrays
- Files

Program Learning Outcome Alignment - Undergraduate

This course aligns with the following program learning outcome(s):

- This course aligns with UMD Student Learning Outcome 2: Construct, integrate, and apply knowledge from instruction and experience.
- This course aligns with UMD Student Learning Outcome 3: Think critically and creatively in seeking solutions to practical and theoretical problems.

Class Schedule

[Course Schedule](#)

Final Exam or Graded Component

Date	Time	Location (if applicable)	Description
5/5/25	2:00 PM CT	Canvas	You have 1 hour 50 minutes to take the final exam which will be available until 4:00 PM CT on Monday 5 May 2025.

Please see the [Final Examinations Policy](#) for more details.

Class Policies

Late Work

All quizzes, and lab and project assignments will receive a 10% deduction in points if turned in after their due date (dates are posted in the Calendar in Canvas).

The deadline for turning in late work for any quiz, lab and/or project assignment is at 5:00 PM CT 2 weeks after that quiz's or assignment's due date, or on the last day of finals week, Friday 9 May 2025, which ever is earlier. After the late credit deadline submissions for that quiz or assignment will no longer be accepted and no credit will be available without prearranged permission from the instructor.

Quizzes, labs and projects can only be submitted one time in Canvas. Any lab or project assignment that has a solution submitted more than once will receive a 25% deduction in points. Note that Canvas only accepts 1 attempt on all quizzes and assignments, so subsequent submissions require [emailing the instructor](#).

The Final Exam must be taken on the day/time scheduled. To take the Final Exam late, you must obtain permission to make-up the Final Exam. Please [contact the instructor](#) directly.

Exams and Quizzes

Exams and Quizzes are open book, open notes, open calculator, unless otherwise noted.

Exams and Quizzes are closed to any form of communication with other people in any form.

Exams and Quizzes are closed to any network or Internet based apps, except for:

- A browser window open to Canvas
- A browser window open to an electronic version of the textbook

Exams and Quizzes are closed to Visual Studio. Do not have Visual Studio or any other programming tools running while you are taking an exam or quiz.

No makeup examination will be given without confirmation of a University-sanctioned excused absence.

Under no circumstances will any exam or quiz be given early.

Your two (2) lowest quiz scores will be dropped.

Syllabus/Schedule Revision

The instructor reserves the right to make changes to the course syllabus or schedule at any time. Revisions will be posted on the course Web site and announced via email.

Class Communication

All class communication will occur via email. Please monitor your University email account on a daily basis to stay up-to-date on any course changes, to receive personal communications from the instructor, and to receive your current course standing.

Course Submissions

Responses to all course inquiries must be provided and submitted in the English language. "Response to course inquiries" includes: Answers submitted on examinations or quizzes; Solutions submitted for course assignments (for example, labs and projects); And, course communications (email, for example).

If English is not your native language there are resources on campus that can provide assistance for you. It is your responsibility to request accommodations that might be available for you. I will support reasonable accommodations that are recommended through an advisor from International Student Services. I recommend that you pursue getting any available accommodations (for example, extra time to take examinations) as soon as possible.

Academic Integrity

All coursework submitted for Exams, Quizzes, and Lab and Project assignments must be your own.

Scholastic dishonesty means:

- Plagiarism
- Cheating on examinations, quizzes, or assignments, including the unauthorized use of online learning support and testing platforms
- Engaging in unauthorized collaboration on academic work, including the posting of student-generated coursework on online learning support and testing platforms
- Taking, acquiring, or using course materials without faculty permission, including the posting of faculty-provided course materials on online learning and testing platforms

More details follow in the Generative Artificial Intelligence (AI) Class Policy below.

This course is designed for *you* to learn how to program. If you have problems or questions please contact the instructor or a TA for help.

Generative Artificial Intelligence (AI) Class Policy

Artificial intelligence (AI) large language models, such as ChatGPT, and online assignment help tools, such as Chegg®, are examples of online learning support platforms: They cannot be used for course Exams, Quizzes, or Lab and Project assignment solutions during this course.

The following actions are prohibited in this course:

- Submitting all or any part of an exam or quiz question, or an assignment write-up to an online learning support platform
- Incorporating any part of an AI generated response in an exam or quiz answer, or an assignment solution
 - Do not use the AI tools built into Visual Studio
 - Do not do general Internet searches to get assistance: Google responds with AI generated code
- Using AI to brainstorm, formulate arguments, or template ideas for assignment solutions
- Submitting your own work for this class to an online learning support platform for iteration or improvement

If you are in doubt as to whether you are using an online learning support platform appropriately in this course, I encourage you to discuss your situation with me.

This course is designed for *you* to learn how to program. If you have problems or questions please email me or a TA for help.

Resources for Students with Disabilities

It is the policy and practice of the University of Minnesota to create inclusive learning environments for all students, including students with disabilities (Board of Regents Policy: [Disability Services](#)). If there are aspects of this course that result in barriers to your inclusion or your ability to meet course requirements such as time limited exams, inaccessible web content, or the use of non-captioned videos, please notify the instructor as soon as possible. You are also encouraged to contact the Office of Disability Resources to discuss and arrange reasonable accommodations. Call 218-726-6130 or visit the [Disability Resources website](#) for more information.

Mental Health and Stress Management Resources

Feelings such as anxiety, anger, depression, low self-esteem, or tension are a normal part of being human and can affect anyone. Sometimes these feelings are temporary and can be eased by rest,

relaxation, exercise, good nutrition and the support of trusted friends. At other times, stressors, relationships or past family experiences cannot be managed so easily and become overwhelming. If this happens, and you find it hard to function, you may want to seek professional help. Counseling Services are available at UMD Health Services to assist you. If you are in need of mental health support when Health Services is closed, or in case of an emergency, please contact The Birch Tree Center's Crisis line at 218-623-1800 or go to the emergency room/urgent care at either Aspirus St. Luke's Hospital or Essentia Health/St. Mary's Hospital. If an ambulance is needed, call 911. If the emergency is non-life-threatening and you do not have a means of transportation, call Campus Police at 218-726-7000. If you have needs that Counseling Services does not treat, they have a case manager who helps connect students to referrals as well as navigating issues with insurance. You can learn more about the broad range of confidential mental health services available on campus at [UMD Health Services](#).

If you are a College In The Schools student (CITS), please reference the above CITS section for more information.

Basic Needs Security

Basic needs security is essential to student wellbeing and learning effectively. Examples of basic needs include accessing sufficient food to eat and having a safe and stable place to live. UMD supports students' basic needs through on-campus resources located in the Office of Student Life, 245 Kirby Plaza, which is open Monday through Friday 8:00 a.m. to 4:30 p.m. [Champ's Cupboard](#) is a free resource for students in need of food, and [Champ's Closet](#) is a free resource for students seeking gently used professional clothing for interviews, internships, and field placements. Any student seeking further information regarding basic needs security may contact the Office of Student Life at vcsl@d.umn.edu or 218-726-8501.

Tutoring Center

The [Tutoring Center](#) on the second floor of Martin Library offers free tutoring sessions for this course. Your tutor will be a high-achieving student trained to assist you. To learn more about the Tutoring Center, find the tutor(s) qualified for this subject area, or reserve a time with a tutor, please visit the [Tutoring Center website](#). The tutors look forward to working with you!

University Policies

[Student Conduct Code](#)

Appropriate classroom conduct promotes an environment of academic achievement and integrity. Disruptive classroom behavior that substantially or repeatedly interrupts either the instructor's ability to teach, or student learning, is prohibited. Students are expected to adhere to the [Board of Regents Policy](#).

[Student Academic Integrity](#)

Academic dishonesty tarnishes UMD's reputation and discredits the accomplishments of students. Academic dishonesty is regarded as a serious offense by all members of the academic community.

[Appropriate Use of Class Notes & Course Materials](#)

Taking notes is a means of recording information but more importantly of personally absorbing and integrating the educational experience. However, broadly disseminating class notes beyond the classroom community or accepting compensation for taking and distributing classroom notes undermines instructor interests in their intellectual work product while not substantially furthering instructor and student interests in effective learning.

[Excused Absences](#)

Students are expected to attend all scheduled class meetings. It is the responsibility of students to plan their schedules to avoid excessive conflict with course requirements. However, there are legitimate circumstances that lead to excused student absence from the classroom. These are subpoenas, jury duty, military duty, religious observances, illness, bereavement, and NCAA varsity intercollegiate athletics.

[Final Examinations](#)

All 1xxx-5xxx courses offered for undergraduate credit should include a final graded component or end of term evaluation that assesses the level of student achievement of one or more course objectives. All final graded components are to be administered or due at the time and place according to the final exam schedule and not during the last week of class.

Teaching & Learning: Instructor & Student Responsibilities

UMD is committed to providing a positive, safe, and inclusive place for all who study and work here. Instructors and students have mutual responsibility to insure that the environment in all of these settings supports teaching and learning, is respectful of the rights and freedoms of all members, and promotes a civil and open exchange of ideas. Policies: [Teaching and Learning: Instructor Responsibilities](#); [Teaching and Learning: Student Responsibilities](#).

[Sexual Harassment, Sexual Assault, Stalking and Relationship Violence](#)

The University is committed to taking prompt and effective steps to end sexual harassment, sexual assault, stalking, relationship violence, and related retaliation, prevent their recurrence and, as appropriate, remedy their effects. Such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment in any University activity or program. Students are encouraged to [report incidents](#) of sexual harassment, sexual assault, stalking, and relationship violence, and to access UMD's [free and confidential support](#) for students. Most University employees, including faculty, are mandated to report incidents that are shared with them to the University's Title IX office. Some UMD employees are exempt from the reporting requirement because of the confidential nature of their work ([see FAQ #6](#)). For full details, please refer to the [Board of Regents policy](#) (definitions), the [University of Minnesota administrative policy](#) (resources, rights, reporting information), and [UMD's Responding to Sexual Misconduct website](#) (Title IX Coordinator contact information, campus resources). See also: [Board of Regents Policy](#).

[Equity, Diversity, Equal Employment Opportunity, and Affirmative Action](#)

The University provides equal access to and opportunity in its programs and facilities, without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. [Equal Opportunity and Affirmative Action](#) and the [Office of Student Conduct & Conflict Resolution](#) are both available to all UMD employees, students, and participants in University-related activities [to discuss issues or concerns](#) regarding University policies or practices involving potential bias, discrimination, harassment or retaliation that an individual may have experienced or observed.

[Academic Freedom and Responsibility](#)

Thoughtful dialog is a cornerstone of higher education. This expectation is upheld in the University of Minnesota's Board of Regents Policy: Academic Freedom and Responsibility, which says in part:

SECTION II. ACADEMIC FREEDOM.

Academic freedom is the freedom, without institutional discipline or restraint, to discuss all relevant matters in the classroom, to explore all avenues of scholarship, research, and creative expression, and to speak or write on matters of public concern as well as on matters related to professional duties and the functioning of the University.

[Grading & Transcripts](#)

UMD Land Acknowledgement

[UMD Land Acknowledgement](#)

We collectively acknowledge that the University of Minnesota Duluth is located on the traditional, ancestral, and contemporary lands of Indigenous people. The University resides on land that was cared for and called home by the Ojibwe people, before them the Dakota and Northern Cheyenne people, and other Native peoples from time immemorial. Ceded by the Ojibwe in an 1854 treaty, this land holds great historical, spiritual, and personal significance for its original stewards, the Native nations and peoples of this region. We recognize and continually support and advocate for the sovereignty of the Native nations in this territory and beyond. By offering this land acknowledgment, we affirm tribal sovereignty and will work to hold the University of Minnesota Duluth accountable to American Indian peoples and nations.

Research Help

Research Help is a service where librarians provide guidance, support, and instruction on how to find and use information. You can meet with a librarian when you're not sure how to get started with a research project, when you've hit a wall in your research, or your usual process isn't working. You can [chat with a librarian 24/7](#), [schedule an appointment](#) with a subject librarian, email libaskus@d.umn.edu, or [drop-in during the day](#).

Writers' Workshop

The [Writers' Workshop](#) offers free one-to-one writing support to all members of UMD's campus community. Consultants are graduate students or faculty members trained to assist you with any writing project at any stage in the writing process. Schedule an appointment on the website or stop by the Workshop's front desk located in the Securian Learning Commons on the second floor of the Kathryn A. Martin Library.

Campus COVID Safety

Visit the [UMD Safe Campus webpage](#) for up-to-date COVID information.

Student Resources

Visit [Resources for Current Students](#) to learn more about resources available to you at UMD.