



# SYLLABUS

**Course:** CIS 3331 – Visual Basic Programming

**Meeting times:** MW 5:30 pm to 6:45 pm

**Instructor:** Dr. Rahul Dwivedi

**Telephone:** 254 – 519 – 5724 (Office)

**Office location:** FH 323N

**Office Hours:**

Monday & Wednesday 10:00 - 11:00 a.m.

Tuesday 10:00 - 12:00 p.m.

Thursday 2:00 – 4:00 p.m.

Also by appointment

**Department:** College of Business/CIS Department, FH 3.323

**Department Phone:** 254-519-5437

**Department Email:** [cobainfo@tamuct.edu](mailto:cobainfo@tamuct.edu)

**Term:** Fall 2018

**Meeting location:** FH

**Email:**

[Rahul.dwivedi@tamuct.edu](mailto:Rahul.dwivedi@tamuct.edu)

Use Canvas First

**Class Website:** Canvas: <https://tamuct.instructure.com> For questions and technical support on using Canvas, please contact the Canvas help desk at: (254)519-5466 or (979)845-8300.

## **Student-instructor interaction:**

My preference is to have contact with students via Canvas first, then e-mail. In case of urgent or complicated issues, feel free to come by my office. (Try to avoid texting, if possible)

## **911 Cellular:**

Emergency Warning System for Texas A&M University – Central Texas

911Cellular is an emergency notification service that gives Texas A&M University-Central Texas the ability to communicate health and safety emergency information quickly via email, text message, and social media. All students are automatically enrolled in 911 Cellular through their myCT email account.

Connect at 911Cellular [<https://portal.publicsafetycloud.net/Texas-AM-Central/alert-management>] to change where you receive your alerts or to opt out. By staying enrolled in 911Cellular, university officials can quickly pass on safety-related information, regardless of your location.

## **COURSE INFORMATION**

### **1.0 Course Overview and Description:**

CIS 3331 is an enhanced coverage of visual application development using Visual Basic and the native integrated development environment. This course covers logic, working with forms, sequential and direct file access, scope and visibility rules, and numerous additional Visual Basic topics. The student will analyze and program several problems.

*Prerequisite: CIS 1303 or 3300, and CIS 1310 or 3303 or concurrent enrollment or approval of School Director.*

## **2.0 Course Objective:**

The objectives of this course offering are to provide an introduction to computer programming. It is designed for students who have no prior programming background. The student will not only learn how to use the various controls, constructs, and features of Visual Basic, but also learn why and when to use them.

### **2.1 Student Learning Outcomes:**

- Demonstrate the knowledge of the Visual Studio .NET Integrated Development Environment.
- Define and contrast low-level and high-level programming languages.
- Discuss the differences between event driven programming and procedural programming.
- Discuss how procedures are used to allow application modularity.
- Distinguish between function procedures and sub procedures.
- List the built-in data types of VB and demonstrate their use.
- List the arithmetic and relational operators and demonstrate their use.
- Discuss the importance of using comments in code.
- Discuss the importance of the debugger and breakpoints.
- Discuss and demonstrate Graphical User Interface design guidelines.
- Discuss and demonstrate the use of variables and variable scope.
- Discuss and demonstrate passing arguments by value and by reference.
- Discuss and demonstrate the use of Visual Basic statements.
- Discuss and demonstrate the use of Arrays.
- Discuss and demonstrate the use of Strings.
- Discuss and demonstrate the use of Sequential File I/O.

### **3.0 Required Reading and Textbook(s):**

**Authors:** Gaddis, Tony and Kip Irvine

**Book:** Starting Out With Visual Basic, 7th Edition

**Editor:** Pearson

**ISBN:** 978-0-13-440015-0

Note: A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

**Supplemental Material:** The course textbook will be supplemented with other materials including handouts, oral presentations, industry articles, research paper readings, case

studies, Power Point presentations etc.

**Required Reading:** The student is expected to read and review all material presented in the assigned chapter prior to class.

Visual Studio 2017 is available to students at no cost through Microsoft Imagine (formerly: Dreamspark) or through Visual Studio 2017 community. To setup a Microsoft Imagine account, visit the computer lab in Warrior Hall.

## **COURSE REQUIREMENTS**

### **4.0 Course Requirements:**

#### **4.1 Tutorials (15 points each chapter) / Challenges (35 points each chapter):**

All assignments are submitted through the Canvas CIS 3331 web site. All submissions require a zipped copy of your complete programming solution that allows me to unzip, open and run your solution in Visual Studio 2017 environment. Please include your full name and assignment identification in the zipped folder file name (ex: Dwivedi\_CH1\_Ch101.zip). You should also note that archives such as .rar, .gz, .tar, .7z, (among others) are not zip archives. Assignment submissions failing to provide the specified naming, identification, and format will not be accepted for grading and sent back. All assignments are due on the specified due date and time. Late submissions will be penalized 10% of grade per day late.

#### **4.2 Exams**

Missed examinations will receive a grade of zero without proper notification. Only students who present a compelling and documented explanation to the department head may arrange for a make-up examination. If accepted, late submissions will be penalized 10% of grade per day late.

*Midterm Exam (200 points):*

*Final Exam (200 points):*

## 5.0 Grading Criteria:

Required Activity	Quantity	Points	Total
Ch. Tutorials	12	15	180
Ch. Challenges	12	35	420
Mid-Term	1	200	200
Final	1	200	200
Total			1,000

Point Range	Letter Grade
1,000-900	A
899-800	B
799-700	C
699-600	D
599-0	F

## COURSE OUTLINE AND CALENDAR

### 6.0 Complete Course Calendar:

#### Important Dates

August 27, Add/Drop/Late Registration begins

August 29, Add/Drop/Late Registration ends, 16-week and 1st 8-week classes

September 3, Labor Day, CAMPUS CLOSED

September 4, Last day to drop 1st 8-week classes with no record

September 12, Last day to drop 16-week classes with no record

October 5, Last day to drop a 1st 8-week class with a Q or withdraw with a W

October 5, Deadline to submit graduation

October 19, Last day to withdraw from the University (1st 8-week classes WF)

October 22, Add/Drop/Late Registration begins, 2nd 8-week classes

October 24, Add/Drop/Late Registration ends, 2nd 8-week classes

October 29, Last day to drop 2nd 8-week classes with no record

November 9, Last day to drop with a Q or withdraw with a W (16-week classes)

November 12, Veteran's Day (no class)

November 22-23, Thanksgiving, CAMPUS CLOSED

November 30, Last day to drop a 2nd 8-week class with a Q or withdraw with a W

December 14, Last day to withdraw from the University (16-week and 2nd 8-week classes)

December 14, Last day to file for Degree Conferral (Registrar's Office)

December 14, Commencement (End of Fall Term)

December 24-January 1, WINTER BREAK

### Tentative Schedule\*

Week	Date	Chapter(s)	Assignment(s) Due
1	8/27	Syllabus / Introduction	
	8/29	Chapter 01 - Introduction to Programming and Visual Basic	
2	9/3	<b>Labor Day – University Closed – No Class</b>	
	9/5	Chapter 01 – Continued	
3	9/10	Chapter 02 - Creating Applications with Visual Basic	Ch.01 Tutorials Ch.01 Challenges
	9/12	Chapter 02 – Continued	
4	9/17	Chapter 03 - Variables and Calculations	Ch.02 Tutorials Ch.02 Challenges
	9/19	Chapter 03 – Continued	
5	9/24	Chapter 04 - Making Decisions	Ch. 03 Tutorials Ch. 03 Challenges
	9/26	Chapter 04 – Continued	
6	10/1	Chapter 05 - Lists and Loops	Ch. 04 Tutorials Ch. 04 Challenges
	10/3	Chapter 05 – Continued	
7	10/8	Chapter 06 - Procedures and Functions	Ch. 05 Tutorials Ch. 05 Challenges Ch. 06 Tutorials Ch. 06 Challenges
	10/10	Chapter 06 – Continued	
8	10/15	<b>Midterm Exam</b>	
	10/17	Chapter 07 - Multiple Forms, Modules, and Menus	
9	10/22	Chapter 07 – Continued	Ch. 07 Tutorials Ch. 07 Challenges
	10/24	Chapter 08 - Arrays and More	
10	10/29	Chapter 08 – Continued	Ch. 08 Tutorials Ch. 08 Challenges
	10/31	Chapter 09 - Files, Printing, and Structures	
11	11/5	Chapter 09 – Continued	Ch. 09 Tutorials Ch. 09 Challenges
	11/7	Chapter 10 - Working with Databases	
12	11/12	Chapter 10 – Continued	
	11/14	Chapter 10 – Continued	
13	11/19	Chapter 11 - Developing Web Applications	Ch. 10 Tutorials Ch. 10 Challenges
	11/21	Chapter 11 – Continued	
14	11/26	Chapter 12 - Classes, Collections, and Inheritance	Ch. 11 Tutorials Ch. 11 Challenges
	11/28	Chapter 12 – Continued	
15	12/3	Chapter 12 – Continued	Ch. 12 Tutorials Ch. 12 Challenges
	12/5	Catch up day	
16	12/10	<b>Final Semester Ends 12/14/17</b>	<b>Exam</b>

**\*This syllabus and schedule are subject to change.**

## UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES

### 7.0 Drop Policy

If you discover that you need to drop this class, you must complete a [Drop Request Form](https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf) [https://www.tamuct.edu/registrar/docs/Drop\_Request\_Form.pdf].

Professors cannot drop students; this is always the responsibility of the student. The Registrar's Office will provide a deadline on the University Calendar for which the form must be completed, signed and returned. Once you return the signed form to the Registrar's Office, you must go into Warrior Web and confirm that you are no longer enrolled. If you still show as enrolled, FOLLOW-UP with the Registrar's Office immediately. You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the drop deadline or fail to follow the procedure, you will receive an F in the course, which may affect your financial aid and/or VA educational benefits.

### 8.0 Academic Integrity

Texas A&M University -Central Texas values the integrity of the academic enterprise and strives for the highest standards of academic conduct. A&M-Central Texas expects its students, faculty, and staff to support the adherence to high standards of personal and scholarly conduct to preserve the honor and integrity of the creative community. Academic integrity is defined as a commitment to honesty, trust, fairness, respect, and responsibility. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. Academic misconduct is any act that improperly affects a true and honest evaluation of a student's academic performance and includes, but is not limited to, cheating on an examination or other academic work, plagiarism and improper citation of sources, using another student's work, collusion, and the abuse of resource materials. All academic misconduct concerns will be reported to the university's Office of Student Conduct. Ignorance of the university's standards and expectations is never an excuse to act with a lack of integrity. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.

### 9.0 Academic Accommodations

At Texas A&M University-Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to a barrier free education. The Department of Access and Inclusion is responsible for ensuring that students with a disability receive equal access to the University's programs, services and activities. If you believe you have a disability requiring reasonable accommodations, please contact the Department of Access and Inclusion at (254) 501-5831. Any information you provide is private and confidential and will be treated as such.

For more information please visit our [Access & Inclusion](https://www.tamuct.edu/student-affairs/access-inclusion.html) webpage[https://www.tamuct.edu/student-affairs/access-inclusion.html].

**Important information for Pregnant and/or Parenting Students:**

Texas A&M University-Central Texas supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and related guidance from US Department of Education's Office of Civil Rights, the Dean of Student Affairs' Office can assist students who are pregnant and/or parenting in seeking accommodations related to pregnancy and/or parenting. Students should seek out assistance as early in the pregnancy as possible. For more information, please visit the [Student Affairs](https://www.tamuct.edu/student-affairs/index.html) web page [https://www.tamuct.edu/student-affairs/index.html]. Students may also contact the institution's Title IX Coordinator. If you would like to read more about these [requirements and guidelines online](http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf), please visit the website [http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf].

Title IX of the Education Amendments Act of 1972 prohibits discrimination on the basis of sex and gender—including pregnancy, parenting, and all related conditions. A&M-Central Texas is able to provide flexible and individualized reasonable accommodation to pregnant and parenting students. All pregnant and parenting students should contact the Associate Dean in the Division of Student Affairs at (254) 501-5909 to seek out assistance. Students may also contact the University's Title IX Coordinator.

## 10.0 Tutoring

Tutoring is available to all A&M-Central Texas students, both on-campus and online. Subjects tutored on campus include Accounting, Advanced Math, Biology, Finance, Statistics, Mathematics, and Study Skills. Tutors are available at the Tutoring Center in Warrior Hall, Suite 111.

If you have a question regarding tutor schedules, need to schedule a tutoring session, are interested in becoming a tutor, or have any other question, contact Academic Support Programs at (254) 519-5796, or by emailing Dr. DeEadra Albert-Green at [deeadra.albertgreen@tamuct.edu](mailto:deeadra.albertgreen@tamuct.edu).

Chat live with a tutor 24/7 for almost any subject from on your computer! Tutor.com is an online tutoring platform that enables A&M-Central Texas students to log in and receive FREE online tutoring and writing support. This tool provides tutoring in over 40 subject areas. Access Tutor.com through Canvas.

## 11.0 The University Writing Center

Located in Warrior Hall 416, the University Writing Center (UWC) at Texas A&M University–Central Texas (TAMUCT) is a free workspace open to all TAMUCT students from 10:00 a.m.-5:00 p.m. Monday thru Thursday with satellite hours in the University Library Monday thru Thursday from 6:00-9:00 p.m. This semester, the UWC is also offering online only hours from 12:00-3:00 p.m. on Saturdays.

Students may arrange a one-on-one session with a trained and experienced writing tutor by visiting the UWC during normal operating hours (both half-hour and hour sessions are available) or by making an appointment via [WOnline](https://tamuct.mywconline.com/) [https://tamuct.mywconline.com/]. In addition, you can email Dr. Bruce Bowles Jr. at [bruce.bowles@tamuct.edu](mailto:bruce.bowles@tamuct.edu) for any assistance needed with scheduling.

Tutors are prepared to help writers of all levels and abilities at any stage of the writing process. While tutors will not write, edit, or grade papers, they will assist students in developing more effective composing practices. By providing a practice audience for students' ideas and writing, our tutors highlight the ways in which they read and interpret students' texts, offering guidance and support throughout the various stages of the writing process. In addition, students may work independently in the UWC by checking out a laptop that runs the Microsoft Office suite and connects to WIFI, or by consulting our resources on writing, including all of the relevant style guides. Whether you need help brainstorming ideas, organizing an essay, proofreading, understanding proper citation practices, or just want a quiet place to work, the UWC is here to help!

If you have any questions about the UWC, please do not hesitate to contact Dr. Bruce Bowles Jr. at [bruce.bowles@tamuct.edu](mailto:bruce.bowles@tamuct.edu).

## **12.0 Library Services**

The University Library provides many services in support of research across campus and at a distance. We offer over 200 electronic databases containing approximately 250,000 eBooks and 82,000 journals, in addition to the 85,000 items in our print collection, which can be mailed to students who live more than 50 miles from campus. Research guides for each subject taught at A&M-Central Texas are available through our website to help students navigate these resources. On campus, the library offers technology including cameras, laptops, microphones, webcams, and digital sound recorders.

Research assistance from a librarian is also available 24 hours a day through our online chat service, and at the reference desk when the library is open. Research sessions can be scheduled for more comprehensive assistance, and may take place on Skype or in-person at the library. Assistance may cover many topics, including how to find articles in peer-reviewed journals, how to cite resources, and how to piece together research for written assignments.

Our 27,000-square-foot facility on the A&M-Central Texas main campus includes student lounges, private study rooms, group work spaces, computer labs, family areas suitable for all ages, and many other features. Services such as interlibrary loan, TexShare, binding, and laminating are available. The library frequently offers workshops, tours, readings, and other events. For more information, please visit our [Library website](http://tamuct.libguides.com/index) [http://tamuct.libguides.com/index].

## **13.0 Instructor Policies Related to Absence, Grading, ETC**

1. Instructor reserves the right to modify the syllabus during the semester for the benefit of the students.
2. Instructor reserves the right to supplement the material presented in the text with additional material that may benefit the students by either providing additional information or a different point of view.
3. Instructor expects that the students will act in a curious and professional manner in all interactions with other students and the instructor.
4. Instructor reserves the right to modify grading rubrics. Changes to grading rubrics



- are only made to current and possibly future assignments.
5. Instructor will not accept assignments after the last day of classes.

## **OPTIONAL POLICY STATEMENTS**

### **A Note about Sexual Violence at A&M-Central Texas:**

Sexual violence is a serious safety, social justice, and public health issue. The university offers support for anyone struggling with these issues. University faculty are mandated reporters, so if someone discloses that they were sexually assaulted (or a victim of Domestic/Dating Violence or Stalking) while a student at TAMUCT, faculty members are required to inform the Title IX Office. If you want to discuss any of these issues confidentially, you can do so through Student Counseling (254-501-5955) located on the second floor of Warrior Hall (207L).

Sexual violence can occur on our campus because predators often feel emboldened, and victims often feel silenced or shamed. It is incumbent on ALL of us to find ways to actively create environments that tell predators we don't agree with their behaviors and tell survivors we will support them. Your actions matter. Don't be a bystander; be an agent of change. For additional information on campus policy and resources visit the [Title IX webpage](https://www.tamuct.edu/departments/compliance/titleix.php) [https://www.tamuct.edu/departments/compliance/titleix.php].

### **Copyright Notice:**

Students should assume that all course material is copyrighted by the respective author(s). Reproduction of course material is prohibited without consent by the author and/or course instructor. Violation of copyright is against the law and Texas A&M University-Central Texas' Code of Academic Honesty. All alleged violations will be reported to the Office of Student Conduct.