

# Great Bay Community College

## CATALOG ADDENDUM 2021-2022

Updated as of February 16, 2022

May 5, 2021

### NOTICE OF NONDISCRIMINATION

Replace

Great Bay Community College does not discriminate in the administration of its admissions and educational programs, activities, or employment practices on the basis of race, color, religion, national origin, age, sex, disability, veteran status, sexual orientation, or marital status. This statement is a reflection of the mission of the Community College System of New Hampshire and Great Bay Community College and refers, but is not limited, to the provisions of the following laws:

1. Title VI and VII of the Civil Rights Act of 1964
2. The Age of Discrimination Act of 1967 (ADEA)
3. Title IX of the Education Amendment of 1972
4. Section 504 of the Rehabilitation Act of 1973
5. The Americans with Disabilities Act of 1990 (ADA)
6. Section 402 of the Vietnam Era Veteran's Readjustment Assistance Act of 1974
7. NH Law Against Discrimination (RSA 354-A)

With

The Community College System of NH does not discriminate in the administration of its admissions and educational programs, activities, or employment practices on the basis of race, creed, color, religion, ancestry or national origin, age, sex, sexual orientation, gender identity and expression, physical or mental disability, genetic information, or law enforcement, military, veteran, or marital status. This statement is a reflection of the mission of the Community College System of NH and refers to, but is not limited to, the provisions of the following laws:

- Title VI and VII of the Civil Rights Act of 1964
- The Age of Discrimination Act of 1967 (ADEA)
- Title IX of the Education Amendment of 1972
- Section 504 of the Rehabilitation Act of 1973
- The Americans with Disabilities Act of 1990 (ADA)
- Section 402 of the Vietnam Era Veteran's Readjustment Assistance Act of 1974
- NH Law Against Discrimination (RSA 354-A)
- NH Law RSA 188-F:3-a.
- Genetic Information Nondiscrimination Act of 2008

Replace

### NH Commission for Human Rights

2 Chennell Drive  
Concord, NH 03301  
(603)271-2767  
Fax: (603) 271-6339

With

## NH Commission for Human Rights

2 Industrial Park Drive

Concord, NH 03301

(603) 271-2767

Fax: (603) 271-6339

## TUITION RATES AND FEES

### Other costs

#### Replace

• Nursing – Preadmission RN Examination	\$116.00
• Nursing – Nursing Uniforms, Accessories, Supplies	\$150.00
• Nursing – Nursing Lab Pack	\$125.00
• Nursing – Student Liability Insurance (per semester)	\$ 20.00
• Nursing – NH Board of Nursing Initial Application for RN License by Examination	\$120.00
• Nursing – EHR Tutor (NURS 111G only)	\$ 55.00
• Nursing – ATI Nursing Testing (\$195.00/per semester)	\$195.00
• Nursing – ATI Comprehensive RN Review Course (Fourth Semester)	\$380.00
• Nursing – Registration Fee for NCLEX-RN Exam	\$200.00

#### With

• Nursing – Nursing Lab Pack (NURS111G only)	\$125.00
• Nursing – Student Liability Insurance (per semester)	\$ 20.00
• Nursing – ATI Nursing Testing (per semester—Class of 2022 only)	\$195.00
• Nursing – ATI Comprehensive RN Review Course (Fourth Semester—Class of 2022 only)	\$365.00
• Nursing – ATI Complete Partner (per semester—Class of 2023 only)	\$612.50

### Change to existing program effective Fall 2021

- **Information Systems Technology A.S. Degree 64 credits** *{Replace two requirements MATH150G College Algebra (or MATH152G, MATH210G, MATH230G, MATH250G) and MATH170G Discrete Mathematics (or MATH210G Pre-Calculus) with two math tracks like Cyber Security Infrastructure A.S. Degree}*

○ ENGL110G/111G	College Composition I/with Lab	4-0/2-4/5
○ MATH145G/147G or (MATH170G)	Quantitative Reasoning/Plus (Discrete Mathematics)	4/5-0-4/5 (4-0-4)
○ IST122G	Introduction to Networks	2-2-3
○ IST123G	Switching, Routing, and Wireless Essentials (SRWE)	2-2-3
○ MATH170G or (MATH215G, 225G, 210G, 230G, 250G)	Discrete Mathematics (200 level MATH)	4-0-4 (4-0-4)
○ LSCIXXXG	Lab Science Elective	3-3-4
○ IST222G	Enterprise, Networking, Security, and Automation	2-2-3
○ IST1XXG	IST Elective (100 Level)	2-2-3
○ IST1XXG	IST Elective (100 Level)*	2-2-3
○ IST2XXG	IST Elective (200 level)*	2-2-3
○ HUMAXXXG	Humanities Elective	3-0-3
○ ENG215G or (ENGL214G)	Writing Technical Documents (Introduction to Creative Nonfiction)	3-0-3 (3-0-3)
○ ISTXXXG	IST Elective (100/200 level)*	2-2-3
○ ISTXXXG	IST Elective (100/200 level)*	2-2-3
○ ISTXXXG	IST Elective (100/200 level)*	2-2-3
○ SOCIXXXG	Social Science Elective	3-0-3
○ ISTXXXG or CISXXXG	IST/CIS Elective*	2-2-3
○ ISTXXXG or CISXXXG	IST/CIS Elective*	2-2-3
○ ISTXXXG or CISXXXG	IST/CIS Elective*	2-2-3
○ ISTXXXG or CISXXXG	IST/CIS Elective*	2-2-3

\*At least 18 credits must be at the 200 level for IST Classes. Up to 15 CIS and DGMT credits will be accepted in the IST Program

**June 30, 2021**

**SURGICAL TECHNOLOGY  
ASSOCIATE IN SCIENCE**

Replace

Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC-STSA), 6 West Dry Creek Circle, Suite 110, Littleton, CO 80120 303.694.9262 Website: [www.arcstsa.org](http://www.arcstsa.org) Email: [info@arcsta.org](mailto:info@arcsta.org) Fax: 303.741-3655

With

Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC-STSA), 19751 E. Mainstreet, Suite 339, Parker, CO 803138 303.694.9262 Website: [www.arcstsa.org](http://www.arcstsa.org) Email: [info@arcsta.org](mailto:info@arcsta.org) Fax: 303.741-3655

**July 27, 2021**

Course is now available both Fall and Spring semesters.

**PSYC241G Social Science Research Method 3-0-3** This course provides an overview of the research design process in the social sciences. Students will design and implement their own research study in an area related to the social sciences. All aspects of a research study will be explored and developed by the students. Ethical issues in research will also be investigated. Prerequisites: PSYC110G and MATH225G (may be co-req); or permission of Program Advisor. Fall/Spring semesters.

**September 15, 2021**

Add System Symposium to calendar.

**2021-2022 ACADEMIC CALENDAR**

**FALL SEMESTER 2021**

Tuesday, October 12 System Symposium – No Classes 8:00 am – 4:00 pm for in person at Portsmouth, Rochester, Seacoast Harley Davidson, Off Campus sites (Nursing, Surg Tech) and including online remote on Tuesday 8:00 am – 4:00 pm. 100% online and classes starting after 4:00 pm are not impacted.

VETN222G - Correction from 6 credits to 5 credits. (Please see additional November 19, 2021, correction adding prerequisite VETN214G)

~~VETN222G Veterinary Clinical Affiliation II 0-15-5 This course is a continuation of VETN130G, Clinical Affiliation I. The objective of this course is to provide the student with practical application and hands-on experience of procedures learned in VETN210G and VETN220G. This course provides supervised clinical experiences in which the learner can incorporate and build upon knowledge and increase skills and self confidence in the veterinary technician role. Students are expected to select, contact, and interview with their potential clinical site before the start of the semester. Prerequisite: "C+" or better in following courses VETN210G, VETN212G, VETN215G, VETN220G. Spring semester~~

**November 19, 2021**

Calendar:

- Add Winter Convening
- Add that Motorcycle classes are running during Spring Break, College Services Available

- Correct SPRING SEMESTER 2022 Last Day to Withdraw with “W” Grade (60%) for 12 1<sup>st</sup> half semester (8-wks) from Feb. 17 to Feb. 18
- Correct SPRING SEMESTER 2022 Last Day to Withdraw with “W” Grade (60%) for 1L Late Start semester (11-wks) from April 6 to April 8

## TUITION RATES AND FEES

Replace ‘ACM’ with ‘MANF’ in fees for ACM254G and ACM255G:

Adv. Composites Mfg. – MANF254G Materials/Equipment Fee	\$327.00
Adv. Composites Mfg. – MANF255G CNC Milling and Set-up Operator Materials/Equipment Fee	\$327.00

Specify Tool Kit fee for course SURG119G Surg Tech Fundamentals Lab:

Surgical Technology – Surgical Technology Tool Kit – SURG119G	\$125.00
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## IV. GRADUATION REQUIREMENTS – Add #7

7. Students participating in the Commencement ceremony must have met all program requirements. Exceptions may be made at the discretion of the college for students whose program is scheduled to be completed in the summer semester directly following the Commencement ceremony. Exceptions may also be made for students who have eight (8) or fewer credits in not more than two courses remaining for program completion.

**Advanced Composites Manufacturing Certificate chart** - Replace ‘ACM’ with ‘MANF’ in course designations and/or title for ACM120G, ACM230G, ACM254G, and ACM255G

**Analytics A.S. Degree chart** - Correction to Theory, Lab, and Credit hours for CIS112G as 2-2-3 and DATA225G as 0-4-2

**Nondestructive Testing Certificate chart** - Replace ‘ACM’ with ‘MANF’ in course designations and/or title for ACM120G, ACM230G, and ACM254G

## COURSE DESCRIPTION corrections

Add IST123G back in:

**IST123G Switching, Routing, and Wireless Essentials 2-2-3** Switching, Routing, and Wireless Essentials (SRWE) is the 2nd of 3 courses in the version 7 CCNA track and covers the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts. Students learn how to configure and troubleshoot routers and switches for advanced functionality using security best practices and resolve common issues with protocols in both IPv4 and IPv6 networks. Prerequisite: IST122G or permission of the instructor. Fall/Spring semesters.

VETN222G - Correction from 6 credits to 5 credits and prerequisite VETN214G. (Supersedes September 15, 2021, correction):

**VETN222G Veterinary Clinical Affiliation II 0-15-5** This course is a continuation of VETN130G, Clinical Affiliation I. The objective of this course is to provide the student with practical application and hands-on experience of procedures learned in VETN210G and VETN220G. This course provides supervised clinical experiences in which the learner can incorporate and build upon knowledge and increase skills and self confidence in the veterinary technician role. Students are expected to select, contact, and interview with their potential clinical site before the start of the semester. Prerequisite: “C+” or better in following courses VETN210G, VETN212G, VETN215G, VETN220G and VETN214G. **Spring semester**

## Curriculum Committee

- Change to existing courses effective Spring 2022
  - **MANF120G Technical Blueprint Reading 1-2-2** Students will learn to read blueprints and develop an understanding of how blueprints provide information necessary to control the manufacturing operation and quality outputs. Topics include terminology, standard abbreviations, the different types of lines on a blueprint, and reading different views. The course covers geometric definitions, including profiles, parallelism, and position. Both paper and electronic formats are included, students are introduced to CAD environment processes, and the English inch and Metric dimensional examples are included. Prerequisite: Accuplacer level testing of QAS 241 or higher in math. All semesters. *{Change subject code 'ACM' to 'MANF' in course designation}*
  - **MANF230G Manufacturing Ethics 1-0-1** Ethics in manufacturing is meant to maintain high standards needed to ensure consumer safety. Compromise of process, standards, or conduct can threaten the welfare of consumers and society. In this course, students will explore how in some manufacturing processes even a slight error can cause danger, why standards are in place, and the importance of following a code of conduct. All semesters. *{Change subject code 'ACM' to 'MANF' in course designation}*
  - **MANF254G Quality Inspection & CMM Oper. 2-2-3** This hands-on course prepares students for jobs as quality inspectors and CMM operators where they will inspect, test, or measure materials, products, or work for conformance to specifications. Students will use precision measuring instruments as they apply advanced quality inspection methods, processes, and standards. Students will be required to read and prepare technical documents and will use mathematical formulas to collect data and prepare reports. They will use critical thinking skills to use logic and reason to identify the strengths and weaknesses of alternative approaches to problems. Prerequisites: Accuplacer level testing into CIS110G and MANF120G Technical Blueprint Reading with a grade of C or better. All semesters. *{Change subject code 'ACM' to 'MANF' in course designation and in prerequisite}*
  - **MANF255G CNC Milling & Set-Up Operator 4-4-6** This hands-on course prepares students for jobs where they will successfully operate a milling machine with a FANUC and Siemens controller, under the direction of the CNC supervisor. Focus is on developing the skills needed to use computer numerical control (CNC) to run a milling machine efficiently and within required quality standards. Students will be introduced to Solidworks and Mastercam, will learn the basics of writing CNC code, and will set up and run CNC milling machines. They will maintain cutting tools dedicated to manufacturing and perform machine maintenance. Prerequisite: MANF120G with a C or better; Or permission of department chair. All semesters. *{Change subject code 'ACM' to 'MANF' in course designation and in prerequisite; remove 'Composites' from title}*
- Deactivated courses effective Spring 2022
  - **IST151G Windows Network Op Syst 2-2-6** Windows operating systems are popular in the networking world. This course is aimed at developing competencies in installation, configuration, diagnosing, and customization of Windows operating systems in network environments. The relationship between Windows implementations and standard protocols and services as they relate to workstation systems will be emphasized. Fall semester.
  - **IST221G Advanced Switching 2-2-3** Multilayer switching enables network administrators to implement appropriate technologies to build scalable multilayer switched networks; build switched networks using multilayer switching technologies; create and deploy global intranet and implement basic troubleshooting techniques in environments that use multilayer switches. The knowledge from this course will also enable learners to improve traffic flow, reliability, redundancy, and performance for LAN switching that are self-supported or transported via service provider. Prerequisite: IST223G or CCNA Certification.

- **IST223G Connecting Networks 2-2-3** The last of a four-course sequence within the Cisco Academy program is based on the Exploration 4 curriculum. Issues of convergence (voice, video, data) on networks are addressed in the context of WAN connectivity through PPP, HDLC, Frame Relay, and broadband WAN protocols. WAN security and efficient implementation through protocols including ACLs, DHCP, and NAT are explored. Prerequisite: IST122G and IST123G.
- **IST228G Network Implementation 2-2-3** Network design and installation methods are utilized to plan and install horizontal layer and vertical backbone networks. Networks are designed, specified, and proposed using industry documentation and cost/performance analysis techniques. Students will implement their design to create an operational network, which analyzed to prove the effectiveness of their plan, use installation equipment, materials, and standards. Prereq IST113G or IST123G or PERMXXX permission of instructor.
- Change to existing program effective Spring 2022
  - **Engineering Science A.S. Degree, Sequence B – Applied Math/Programming Option:** replace 'MATH170G or MATH215G' with 'MATH235G'

## December 1, 2021

### Curriculum Committee

- Change to existing programs effective Spring 2022
  - **Computer Numeric Control (CNC) chart** - Replace 'ACM' with 'MANF' in course designations and/or titles *{Per change of ACM120G to MANF120G, ACM230G to MANF230G, ACM254G to MANF254G, and ACM255G to MANF255G}*
  - **Engineering Science A.S. Degree, 63-64 credits** *{Deactivate Sequence A – Advanced Composites Option; other three sequences remain.}*
- Change to existing courses effective Spring 2022
  - **ACM210G Fund.Composites Manufacturing 3-2-4** This course reinforces learning from ACM110G while providing a study of topics fundamental to manufacturing, including quality assurance processes and statistical process control; production systems with a focus on lean processes; and personal effectiveness skills including time management and adapting to change. An introduction to polymer chemistry and the physics of strength of materials will make students familiar with elementary concepts of composites manufacturing. Additional topics will be introduced, creating a broad awareness of all advanced composites manufacturing aspects. Prerequisites: C or better in ACM110G, C or better in ACM115G, and MANF120G. All semesters. *{Per change of ACM120G to MANF120G, change prerequisite.}*
  - **ACM265G Multi Axis CNC Milling 2-4-4** In this course students will continue to develop their understanding of theory and machine tool processes in both classroom and hands-on work. After a review of basic 3 axis machinery, students will learn multi axis CNC machinery, including advanced tooling and problem solving. This course will cover the laws of physics pertaining to various rotational and linear forces. Students will demonstrate mathematics needed to successfully manufacture parts and write advanced CNC code. They will develop increasingly complex projects using a variety of materials and maintain quality procedures. Focus will be on work related skills including problem solving, safety, ability to follow work instructions, and time management. Prerequisite: MANF255G. Fall semester. *{Per change of ACM255G to MANF255G, change prerequisite.}*
  - **MATH085G Skills for College Math Plus 4-0-4** This course is for students who need a refresher in basic math concepts and skills as well as those who have never taken an algebra course. Topics covered are operations of whole numbers, operations with signed numbers; algebraic expressions; linear equations/inequalities; exponents; square roots; understanding and manipulating formulas; translating and solving word problems; interpreting/analyzing data, and graphing simple linear equations. (This

course carries 4 credits, which apply to the GPA; however, the credits do not count toward degree requirements.) All semesters *{Per deactivation of MATH080G, removed 'Students cannot receive credit for both MATH080G and MATH085G.'}*

- **SOCI250G CrossCultur.ConflictResolution 3-0-3** This course provides an overview of theories and research concerning the nature of conflict and methods for resolving conflict in diverse communities. This course is designed to introduce students to cross cultural differences in the norms, values, perceptions, and behaviors as they impact personal lives and interpersonal skills. Students will be introduced to theoretical frameworks for analyzing and resolving conflicts within relationships where the participants come from very different backgrounds and/or ethnic cultures. Spring semester. *{Change title from 'Multi Ethnic Cross-Cult Rel.', change course description.}*
- **TCHP101G Intro to Exceptionalities 3-0-3** This course will provide students with an overview of the special education process in today's public schools. The special education process involves working effectively with school personnel and parents, and acquiring a general knowledge of various disabilities and needs of students. A comprehensive examination of inclusion and its effects on the classroom environment will be covered. This course will provide teachers and paraprofessionals with the basic knowledge to begin to successfully meet the needs of a variety of students in the classroom. This course requires 25 hours of field observation in a K-12 educational setting. This course will also provide a foundation for further courses in the area of special education. \*Students will be required to complete a total of 50 hours of field observation/experience prior to graduation. Fall/Summer semesters. *{Change course description adding 25 hours of field observation with 50 hours prior to graduation.}*
- **TCHP104G Foundations of Education 3-0-3** This course will provide students with an overview of education in the United States and an overview of the many dimensions of the teaching profession. There are many factors that influence the teaching profession, from the students in the classroom to the political climate. This course will engage students in the examination of these influences and their effects on education in the K-12 setting. Students will be encouraged to reflect on the art of teaching. This course requires 25 hours of observations in a classroom setting. \*Students will be required to complete a total of 50 hours of field observation prior to graduation. Fall/Spring semesters. *{Change course description adding 25 hours of field observation with 50 hours prior to graduation.}*
- Deactivated course effective Spring 2022
  - **MATH080G Skills for College Math 4-0-4** This course is for the student who possesses an adequate background in basic math concepts and skills, but who has never taken an algebra course or who needs a refresher course. Topics covered are operations with signed numbers; algebraic expressions; linear equations/inequalities; exponents; square roots; understanding and manipulating formulas; translating and solving word problems; interpreting/analyzing data, and basic graphing techniques; and applications of all skills. Credits do not count toward graduation requirements. Prerequisite: MATH070G with C or better or math department approval. All semesters

## February 16, 2022

### Curriculum Committee

- Change to existing course effective Spring 2022
  - **CRMJ206G Victim Rights and Advocacy 3-0-3** This course is designed to introduce students to the rights of crime victims and their advocacy in the criminal justice system. The course examines police, courts, advocates, and the media and their relationships with the crime victim. The course will examine the role of victims in the criminal justice process, understand the complexities of victim-offender relationships and understand how we respond to victims. Specific categories of crime victims are studied, including sexual assault victims, domestic violence, stalking victims, hate crime victims, workplace and school violence victims, and child and elderly victims. Spring semester *{Change course description.}*

**COURSE DESCRIPTION correction, add Placement Testing or permission of Instructor to prerequisite list.**

**CIS113G Database Design & Management 2-2-3** This course is an introduction to database analysis, planning, designing, and implementation with emphasis on the relational model. Students will study the theory behind relational databases, relational database nomenclature, and relational concepts. The course will include studying Structured Query Language (SQL) and optimizing databases through normalization. Students will apply their knowledge with hands-on exercises designed to teach the intricacies of database design methodology. A final project will conclude the course. (Fall semester) Prerequisite: Placement Testing or CIS111G or CIS110G or CIS107G or permission of Instructor.