

ARTICULATION AGREEMENT BETWEEN KEENE STATE COLLEGE AND NHTI, CONCORD'S COMMUNITY COLLEGE

In the spirit of providing New Hampshire students with enhanced freedom of choice and access among Community College System of New Hampshire system partners, Keene State College (KSC) and NHTI, Concord's Community College enter into an Articulation Agreement for the delivery of academic programs and or curricula as identified in this document and in its appendices.

Students completing a minimum of 60 credits (credit bearing courses applied to community college requirements) at NHTI will be admitted to Keene State College with junior status. Courses at NHTI that are not equivalent to Keene State College major or Integrative Studies Program requirements but are credit bearing courses applied to community college requirements will be applied as general elective credits toward the baccalaureate degree. Students completing a minimum of 60 credits at NHTI, in most cases, will have the opportunity to complete their baccalaureate degree in two years.

PURPOSE

The agreement will contribute to the seamless access to baccalaureate level study for NHTI, Concord's Community College students who complete Associate degrees in:

- AA Visual Arts
- AS Computer Engineering Technology
- AS Information Technology
- AS Early Childhood Education
- AS Education
- AS Business Administration
- AS Mechanical Engineering Technology
- AS Manufacturing Engineering Technology
- AS Addiction Counseling

The purpose of this Articulation Agreement is to provide the framework which specifies how individuals who complete:

- an Associate Degree of Arts in Visual Arts at NHTI, Concord's Community College may transfer credits into a Baccalaureate degree of Arts in Art: Studio Art Option at Keene State College (Appendix A)
- an Associate Degree of Science in Computer Engineering Technology at NHTI, Concord's Community College may transfer credits into a Baccalaureate degree of Science Applied Computer Science at Keene State College (Appendix B)
- an Associate Degree of Science in Information Technology at NHTI, Concord's Community College may transfer credits into a Baccalaureate degree of Science in Applied Computer Science at Keene State College (Appendix C)
- an Associate Degree of Science in Early Childhood Education at NHTI, Concord's Community College may transfer credits into a Baccalaureate degree of Science in Education: Early Childhood Development at Keene State College (Appendix E)
- an Associate degree of Science in Education at NHTI, Concord's Community College may transfer credits into a Baccalaureate degree of Science Education: Elementary Education at Keene State College (Appendix F)
- an Associate degree of Science in Business Administration: Management at NHTI, Concord's Community College may transfer credits into a Baccalaureate degree of Science in Management at Keene State College (Appendix H)
- an Associate degree of Science in Mechanical Engineering Technology at NHTI, Concord's Community College may transfer credits into a Baccalaureate degree of Science in Sustainable Product Design and Innovation at Keene State College (Appendix I)
- an Associate degree of Science in Manufacturing Engineering Technology at NHTI, Concord's Community College may transfer credits into a Baccalaureate degree of Science in Sustainable Product Design and Innovation at Keene State College (Appendix J)
- An Associate degree of Science in Addiction Counseling at NHTI, Concord's Community College may transfer credits into a Baccalaureate degree of Science in Health Science: Substance Abuse/Addictions Option (Appendix K)

This agreement also specifies how general education courses taken at NHTI, Concord's Community College will be applied to Keene State College's Integrative Studies Program (Appendix L)

Finally this agreement identifies courses taken at NHTI, Concord's Community College that can be applied to various baccalaureate programs at Keene State College. These equivalencies create a pathway for students to transition from NHTI, Concord's Community College to Keene State College. (Appendix M)

JOINT RESPONSIBILITIES

To the extent possible, NHTI, Concord's Community College and Keene State College will publicize this Agreement and collaborate in joint marketing efforts. NHTI, Concord's Community College and Keene State College will each review the status of the Agreement as appropriate and each party will notify the other of any opportunities or issues that need to be addressed.

COURSE AND/OR PROGRAM CHANGES

Any course or program changes at either NHTI, Concord's Community College or Keene State College that impact the existing articulation agreement must be communicated to the designated campus representative at each institution.

PERIODIC REVIEW

Articulation agreements will be reviewed every five years to determine if any changes in course content or outcomes have occurred that might impact the existing agreement.

ACADEMIC STANDARDS

Keene State College assures the acceptance of an Associate degree graduate who has earned a grade point average of a 2.0 or better. Courses are evaluated on an individual basis to determine the appropriate academic equivalents.

Grades earned at other institutions are not included in the computation of the student's grade point average at Keene State College. Students should refer to the Keene State College Transfer of Credit Policy (<http://www.keene.edu/aca/transfer.cfm>). Once admitted students are responsible for becoming aware of, and meeting, the standard established for academic performance at Keene State College. A cumulative grade point average (GPA) of 2.00 is required to be in good academic standing.

TERM AND TERMINATION

This agreement will become effective immediately after all parties have signed. It may be terminated by either party by giving notice in writing to the other party at least twelve (12) months prior to the date of termination.

PROGRAM OVERSIGHT

Visual Arts

The NHTI, Concord's Community College Associate Degree in Visual Arts is administered by the chair of the department (Susan Haas) and supervised by the Vice President for Academic Affairs (Pamela Langley). The KSC Baccalaureate in Art: Studio Art Option is administered by the chair of the department (Robert Kostick) and supervised by the Dean of Arts and Humanities.

Computer Engineering Technology

The NHTI, Concord's Community College Associate Degree in Computer Engineering Technology is administered by the chair of the department (...) and supervised by the Vice President for Academic Affairs (Pamela Langley). The KSC Baccalaureate in Applied Computer Science is administered by the chair of the department (Mike Hanrahan) and supervised by the Dean of Sciences.

Information Technology

The NHTI, Concord's Community College Associate Degree in Information Technology is administered by the chair of the department (Tom Laurie) and supervised by the Vice President for Academic Affairs (Pamela Langley). The KSC Baccalaureate in Applied Computer Science is administered by the chair of the department (Mike Hanrahan) and supervised by the Dean of Sciences.

Business Administration

The NHTI, Concord's Community College Associate Degree in Business Administration is administered by the chair of the department (Martha Hunt) and supervised by the Vice President for Academic Affairs (Pamela Langley). The KSC Baccalaureate in Management is administered by the chair of the department (Linda Hadden) and supervised by the Dean of Sciences.

Mechanical Engineering Technology

The NHTI, Concord's Community College Associate Degree in Mechanical Engineering Technology is administered by the chair of the department (Robert Arredondo) and supervised by the Vice President for Academic Affairs (Pamela Langley). The KSC Baccalaureate in Sustainable Product Design and Innovation is administered by the chair of the department (Larry McDonald) and supervised by the Dean of Professional and Graduate Studies.

Manufacturing Engineering Technology

The NHTI, Concord's Community College Associate Degree in **Manufacturing Engineering Technology** is administered by the chair of the department (Robert Arredondo) and supervised by the Vice President for Academic Affairs (Pamela Langley). The KSC Baccalaureate in **Sustainable Product Design and Innovation** is administered by the chair of the department (Larry McDonald) and supervised by the Dean of Professional and Graduate Studies.

Early Childhood Education

The NHTI, Concord's Community College Associate Degree in **Early Childhood Education** is administered by the chair of the department (Gale Hall) and supervised by the Vice President for Academic Affairs (Pamela Langley). The KSC Baccalaureate in **Education: Early Childhood Development** is administered by the chair of the department (Shirley McLoughlin) and supervised by the Dean of Professional and Graduate Studies.

Education

The NHTI, Concord's Community College Associate Degree in **Education** is administered by the chair of the department (Kelly Moore Dunn) and supervised by the Vice President for Academic Affairs (Pamela Langley). The KSC Baccalaureate in **Education: Elementary Education** is administered by the chair of the department (Shirley McLoughlin) and supervised by the Dean of Professional and Graduate Studies.

Addiction Counseling

The NHTI, Concord's Community College Associate Degree in **Addiction Counseling** is administered by the chair of the department (Kathleen Curran) and supervised by the Vice President for Academic Affairs (Pamela Langley). The KSC Baccalaureate in **Health Sciences: Substance Abuse/Addictions Option** is administered by chair of the department (Rebecca Brown) and supervised by the Dean of Professional and Graduate Studies.

DISPUTE RESOLUTION

Notice of any and all complaints and/or grievances concerning this Agreement shall be provided to the administrators assigned to this contract. Both partners will work collaboratively to solve any said disputes.

ASSIGNMENTS

This Agreement may not be assigned or otherwise transferred by either party, in whole or in part, without the express prior written consent of the other party.

APPLICABILITY OF STATE LAW

This agreement shall be governed and interpreted under the laws of the State of New Hampshire.

APPENDIX A

AA Visual Arts to BA Art: Studio Art option

AA Visual Arts	http://www.nhti.edu/academics/academicprograms/degvisarts.html	BA Art: Studio Art option
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→To become a Keene State Art major (Graphic Design and Studio Art options), a portfolio of 10 to 20 pieces of artwork must be submitted and accepted. See further discussion in Keene State College Catalog website: <http://www.keene.edu/catalog/programs/art/default.cfm#b>

→Each student must demonstrate proficiency in a language other than English

NHTI	KSC
	Foundation Core
VRTS 102 Introduction to the Visual Arts	ART 101 Foundations of Design or IAART 100
112 Survey of Western Art History II	ART 111 Introduction to Art History or IAART 110
VRTS 101 Introduction to Drawing	ART 125 Drawing I or IAART 120
	Studio Design Art Option
	200-level courses
VRTS 135 Introduction to Ceramics	ART 208 Ceramics I
VRTS 201 Drawing II	ART 225 Drawing II
VRTS 120 Introduction to Oil Painting	ART 226 Painting I
	ART 244 Sculpture I
VRTS 290 Visual Arts Capstone Practicum	ART 295 Sophomore Studio/Exhibit Practice
	Select one of the following:
VRTS 111 Survey of Western Art History I	• ART 211 Ancient Art
	• ART 212 Medieval Art
	• ART 213 Renaissance Art
VRTS 115 History of Modern Art	• ART 214 Modern Art
	• ART 290 Topics in Art History
	• ART 492 Art History Seminar
	300-level courses
VRTS 126 Introduction to Printmaking	ART 333 Printmaking I
	Select one of the following:
VRTS 235 Ceramics II	• ART 308 Ceramics II
	• ART 325 Drawing III
VRTS 121 Introduction to Watercolor	• ART 326 Painting II
	• ART 334 Printmaking II
	• ART 344 Sculpture II
	400-level courses
	ART 495 Senior Studio/ Exhibit practice
	Select one of the following:
	• ART 408 Ceramics III
	• ART 426 Painting III
	• ART 434 Printmaking III
	• ART 444 Sculpture III
	• ART 490 Advanced Studio Topics

APPENDIX B

AS Computer Engineering Technology to BS Applied Computer Science

AS Computer Engineering Technology	http://www.nhti.edu/academics/academicprograms/degcpet.html	BS Applied Computer Science
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The Bachelor of Science in Applied Computer Science provides students with a thorough grounding in computer programming and information science and an introduction to the various branches of computer science. The primary focus is to prepare students to successfully operate as information science (IS) or information technology (IT) professionals, and/or pursue graduate studies in CS or a related field.

NHTI	KSC
AS Computer Engineering Technology	KSC Major Requirements
	Core Courses
	MATH 135 Mathematical Foundations for CS
CP 107 Introduction to Programming with C++	CS 140 Computer programming I
	Select one of the following:
	• CS 150 Web Page Construction
	• CS 160 Microcomputer Systems
CP 235 Algorithms with Object Oriented Programming	CS 185 Computer Programming II
	CS 280 Data Structures and Algorithms
	Architecture and Programming Electives
	Choose one of the following:
	• CS 210 Midrange Systems
	• CS 215 Unix System Admin
EL 144 Embedded Microsystems AND EL 215 Advanced Digital Electronics	• CS 265 Computer Architecture
	• CS 367 Command Language Programming
	Choose one of the following:
CP 240 Programming for Windows Operating Systems	• CS 205 User Interface and Visual Programming
	• CS 220 COBOL Programming
CP 107 Introduction to Programming Using C++	• CS 225 C++ Programming
	• CS 230 RPG Programming
	• CS 310 Assembly Language
	Advanced Electives
	Six upper-level courses (300/400 level) with a minimum of three being at 400 level. Current courses that satisfy this are:
CP 260 Computer Real Time Interfacing	This will count as a 300-level elective
	CS 310 Assembly Language
	CS 320 Operating Systems Design
CP 252 Networking and Internet Technologies	CS 340 Internet Programming
	CS 350 Systems Analysis and Project Management
CP 222 Data Communications and Internetworking	CS 355 Telecom and Computer Networks
	CS 360 Database Systems

	CS 367 Command Language Programming
	CS 375 Software Engineering
	CS 410 Advanced Software Development
	CS 420 E-Commerce Development
	CS 430 Study of Programming Languages
	CS 440 Software Engineering Project
	CS 460 Data Warehousing and Mining
	CS 462 DBS Project and Advanced SQL
	CS 485 Strategic Information Management
	CS 490 Advanced Special topics
	CS 495 Seminar
	CS 498 Independent Study
	Practical Experience
	Choose one:
	CS 293 Supervised Field Experience
	CS 493 Advanced Supervised Field Experience

APPENDIX C

AS Information Technology to BS Applied Computer Science

AS Information Technology	http://www.nhti.edu/academics/academicprograms/degit.html	BS Applied Computer Science
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The Bachelor of Science in Applied Computer Science provides students with a thorough grounding in computer programming and information science and an introduction to the various branches of computer science. The primary focus is to prepare students to successfully operate as information science (IS) or information technology (IT) professionals, and/or pursue graduate studies in CS or a related field.

→Transfer students entering with a completed AS in information Technology will NOT have to complete the requirements listed under "Architecture and Programming Electives"

NHTI	KSC
AS Information Technology	KSC Major Requirements
	Core Courses
	MATH 135 Mathematical Foundations for CS
IT 210 Object Oriented Programming in Java	CS 140 Computer programming I
	Select one of the following:
IT 270 Web Page Design and Development	CS 150 Web Page Construction
IT 108 Personal Computer Hardware and Software	CS 160 Microcomputer Systems
	CS 185 Computer Programming II
	CS 280 Data Structures and Algorithms
	Architecture and Programming Electives
	Choose one of the following:
	CS 210 Midrange Systems
IT 183 Introduction to RedHat Linux AND IT 184 Linux Core Systems Administration	CS 215 Unix System Admin

	- CS 265 Computer Architecture - CS 367 Command Language Programming
	Choose one of the following:
IT 213 Introduction to the Web	CS 205 User Interface and Visual Programming
	CS 220 COBOL Programming
	CS 225 C++ Programming
	CS 230 RPG Programming
	CS 310 Assembly Language
	Advanced Electives
	Six upper-level courses (300/400 level) with a minimum of three being at 400 level. Current courses that satisfy this are:
	CS 310 Assembly Language
	CS 320 Operating Systems Design
	CS 340 Internet Programming
	CS 350 Systems Analysis and Project Management
IT 252 Designing and Supporting Computer Networks	CS 355 Telecom and Computer Networks
IT 140 Database Design and Management AND IT 240 Advanced Web Programming	CS 360 Database Systems
	CS 367 Command Language Programming
	CS 375 Software Engineering
	CS 410 Advanced Software Development
	CS 420 E-Commerce Development
	CS 430 Study of Programming Languages
	CS 440 Software Engineering Project
	CS 460 Data Warehousing and Mining
	CS 462 DBS Project and Advanced SQL
	CS 485 Strategic Information Management
IT 262 Network Security	CS 490 Advanced Special topics
	CS 495 Seminar
	CS 498 Independent Study
	Practical Experience
	Choose one:
IT 294 Senior IT Internship	CS 293 Supervised Field Experience
	CS 493 Advanced Supervised Field Experience

APPENDIX E

AS Early Childhood Education to BS Education: Early Childhood

AS Early Childhood Education	http://www.nhti.edu/academics/academicprograms/degece.html	BS Education: Early Childhood Development
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Early Childhood Dept Head: Gale Hall (603) 271-2305 ghall@ccsnh.edu

Students seeking certification in **Early Childhood Development** are required to complete a liberal arts major in **one** of the following areas:

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| • American Studies | • Economics | • Individualized Major |
| • Applied Computer Science | • English | • Journalism |
| • Art (portfolio requirement) | • Environmental Studies | • Mathematics |
| • Biology | • Film Studies | • Mathematics-Physics |
| • Chemistry | • French | • Music (audition required) |
| • Chemistry-Physics | • General Science | • Psychology |
| • Communication | • Geography | • Social Science |
| • Computer-Mathematics | • Geology | • Sociology |
| | • History | • Spanish |
| | • Holocaust and Genocide Studies | • Theatre and Dance |

Early Childhood Development Option: 48 credits, plus liberal arts major

**** To be accepted as transfer credit, EDUC 311 requires presentation of portfolio of all work for courses as shown**

NHTI	KSC
EC 102 Foundations of Early Childhood Education	EDUC 100 Issues in Education
SO 214 Race and Ethnic Relations OR EC 242 Child, Family, and Community	EDUC 200 Social Contexts of Education
EC 270 Teaching Young Children with Special Needs AND EC 101 Growth & Development of the Young Child	EDSP 202 Development, Exceptionality, And Learning
MT 120 Topics in Applied College Mathematics	MATH 171 Structure of Number Systems
EC 155 Using Children's Literature to Support Young Children's Language and Literacy Development	A course in Children's Literature This course will count as an ISP credit (see table below)
EC 188 Health, Safety and Nutrition in Early Childhood Education EC 141 Curriculum and Environments I EC 142 Curriculum Environments II EC 267 Positive Behavior Guidance and Supporting Young Children with Challenging Behaviors EC 275 OR 276 Practicum I or II <i>Plus portfolio of work for all 6 classes</i>	EDUC 311 Early Childhood Methods I: Infant/Toddler/ Preschool All entering students MUST have EC 155 on their transcript to enroll in Methods (see section above) We understand your desire for students to complete their program at NHTI. Should an unusual situation occur that a transfer student has not completed EC 276, but was able to present an appropriate portfolio and evidence of EC 275, we would be able to accept them
	EDUC 312 Early Childhood Methods II: Primary Grades (K-3)
	EDUC 400 Student Teaching
	EDUC 410 EC Student Teaching Seminar

APPENDIX F

AS Education to BS Education: Elementary

AS Education	http://www.nhti.edu/academics/academicprograms/degeducation.html	BS Education: Elementary
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Education Dept. Head: Kelly Moore Dunn (603) 271-8881 kdunn@ccsnh.edu

Education majors must also fulfill requirements of a liberal arts major. Students seeking certification in Elementary Education are required to complete a liberal arts major in **one** of the following areas:

- American Studies
- Applied Computer Science
- Art (portfolio requirement)
- Biology
- Chemistry
- Chemistry-Physics
- Communication
- Computer-Mathematics
- Economics
- English
- Environmental Studies
- Film Studies
- French
- General Science
- Geography
- Geology
- History
- Holocaust and Genocide Studies
- Individualized Major
- Journalism
- Mathematics
- Mathematics-Physics
- Music (audition required)
- Psychology
- Social Science
- Sociology
- Spanish
- Theatre and Dance

Elementary Education option: 48 credits, plus liberal arts major

NHTI	KSC
ED 104 Foundations of Education	EDUC 100 Issues in Education
SO 214 Race and Ethnic Relations	EDUC 200 Social Contexts of Education
ED 101 Introduction to Exceptionalities AND PY 220 Human Growth & Development	EDSP 202 Development, Exceptionality, and Learning
MT 120 Topics in Applied College Mathematics	MATH 171 Structure of Number Systems
	MATH 172 Application of Number Systems
	EDUC 321 Elementary Methods I: Integrating Literacy, Social Studies and the Arts
	EDUC 322 Elementary Methods II: Integrating Math, Science and Literacy
	EDSP 250 Context for Special Education
	EDSP 350 Curriculum Design for Students with Special Needs
	EDSP 352 Behavior and Social Supports
	EDSP 354 Assessment in Special Education
	EDSP 356 Practicum and Methods in Special Education
	EDUC 405 Student Teaching (Elementary)
	EDUC 420 Student Teaching Seminar
	EDSP 405 Student Teaching
	EDSP 450 SPED Student Teaching Seminar

APPENDIX G

AS Education to BS Education: Special Education Option - Elementary

AS Education	http://www.nhti.edu/academics/academicprograms/degeducation.html	BS Education: Special Education Option – Elementary <i>There are some courses in this area which may be transferable. This goes to course by course vs program to program</i>
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Education Dept. Head: Kelly Moore Dunn (603) 271-8881 kdunn@ccsnh.edu

Education majors must also fulfill requirements of a liberal arts major. Students seeking certification in Elementary Education are required to complete a liberal arts major in **one** of the following areas:

- American Studies
- Applied Computer Science
- Art (portfolio requirement)
- Biology
- Chemistry
- Chemistry-Physics
- Communication
- Computer-Mathematics
- Economics
- English
- Environmental Studies
- Film Studies
- French
- General Science
- Geography
- Geology
- History
- Holocaust and Genocide Studies
- Individualized Major
- Journalism
- Mathematics
- Mathematics-Physics
- Music (audition required)
- Psychology
- Social Science
- Sociology
- Spanish
- Theatre and Dance

Elementary Education option: 48 credits, plus liberal arts major

NHTI	KSC
ED 104 Foundations of Education	EDUC 100 Issues in Education
SO 214 Race and Ethnic Relations	EDUC 200 Social Contexts of Education
ED 101 Introduction to Exceptionalities AND PY 220 Human Growth & Development	EDSP 202 Development, Exceptionality, and Learning
MT 120 Topics in Applied College Mathematics	MATH 171 Structure of Number Systems
	MATH 172 Application of Number Systems
	EDUC 321 Elementary Methods I: Integrating Literacy, Social Studies and the Arts
	EDUC 322 Elementary Methods II: Integrating Math, Science and Literacy
	EDSP 250 Context for Special Education
	EDSP 350 Curriculum Design for Students with Special Needs
	EDSP 352 Behavior and Social Supports
	EDSP 354 Assessment in Special Education
	EDSP 356 Practicum and Methods in Special Education

	EDUC 405 Student Teaching (Elementary)
	EDUC 420 Student Teaching Seminar
	EDSP 405 Student Teaching
	EDSP 450 SPED Student Teaching Seminar

APPENDIX H

AS Business Administration to BS Management

AS Business Administration	http://www.nhti.edu/academics/academicprograms/degbusadmin.html	BS Management
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This career-oriented program, emphasizing management skills and building on a solid foundation in the liberal arts and sciences, is designed to prepare individuals for management careers in industrial or public organizations and for graduate work.

NHTI	KSC
AS Business Administration	KSC Major Requirements
BU 270 Principles of Management	MGT 101 Introduction to Management
MT 125 Finite Mathematics	MGT 202 Quantitative Decision Making
AC 101 Accounting I AC 102 Accounting II	MGT 213 Financial Accounting
AC 250 Cost Accounting	MGT 214 Managerial Accounting
BU 245 Organizational Behavior	MGT 301 Organizational Theory and Behavior <i>**Credits will be applied to the degree, but in addition students must complete MGT 355 Business Negotiations OR MGT 324 Human Resource Management</i>
BU 250 Principles of Finance BU 278 International Business	MGT 319 Financial Management <i>**Credits will be applied to the degree, but in addition students must complete MGT 306 Personal Financial Planning</i>
BU 170 Principles of Marketing	MGT 331 Principles of Marketing <i>**Credits will be applied to the degree, but in addition students must complete MGT 434 Marketing Research OR MGT 333 Advertising & Promotion</i>
	MGT 381 Management Information Systems
	MGT 451 Social, Legal, and Political Environment of Business
	MGT 491 Business Policy and Strategy
	MGT electives (4 credits at 300 or 400 level)
	Allied Discipline Requirements
EN 120 Communications	IH COMM 171 Public Speaking
IT 102 PC Applications	CS 101 Introduction to Computer Information Processing
EO 102 Microeconomics	ECON 103 Introduction to Microeconomics
EO 101 Macroeconomics	ISECON 104 Introduction to Macroeconomics

APPENDIX I

AS Mechanical Engineering Technology to BS Sustainable Product Design and Innovation

AS Mechanical Engineering Technology	http://www.nhti.edu/academics/academic_programs/degeet.html	BS Sustainable Product Design and Innovation
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MFET/MET Dept Head: Robert Arredondo (603) 271-7741 rarredondo@ccsnh.edu

The Sustainable Product Design and Innovation major at Keene State College is a pre-professional four-year program offering a cross-disciplinary curriculum to give the student a solid foundation in the artistic, scientific, and technical aspects of product design and the social and scientific aspects of sustainability concerns. Graduates are prepared to pursue graduate study or transition directly into careers in product design/engineering, technology/evaluation, planning, supply, production, quality control, technical services, marketing, sales, or other related professions.

NHTI	KSC
	<i>SPDI Core Courses</i>
MF 202 Measurement and Control AND PH 135 Physics II: Light Sound, Electricity	SPDI 110 Electricity and Electronics Fundamentals
	SPDI 152 Product Design I
MF 220 Manufacturing Processes and Machine Tools	SPDI 180 Metal Processes and Prototyping
	SPDI 252 Product Design II
	SPDI 253 Materials: A Life-Cycle View
MC 103 Design Graphics III	SPDI 221 Three-dimensional CADD
MF 241 Computer Integrated Manufacturing (CIM)	SPDI 352 Product Design III
	<i>Management Core Courses</i>
BU 270 Principles of Management	MGT 101 Introduction to Management
MT 125 Finite Mathematics	MGT 202 Quantitative Decision-making
	MGT 331 Principles of Marketing---OR--- MMGT 446 Competitive Manufacturing Mngmnt
MC 101 Design Graphics I AND MC 102 Design Graphics II	Choose 4 credits from the following: SPDI 121 Drafting, Sketching, and CADD SPDI 170 Introductions to Woodworking Tech SPDI 270 Woodworking Processes SPDI 280 CAD/CAM: Using MasterCAM MGT 451 Social, Legal, and Political Environment of Business SPDI 290 Special Topics SPDI 298 Independent Study SPDI 490 Advanced Special Topics SPDI 495 Seminar SPDI 498 Independent Study
	<i>Required Allied Discipline Courses</i>
	**8 credits plus 4 credits Integrative Studies
VRTS 104 Three-dimensional Design (with portfolio review)	IA Art 103 Three-dimensional Design
	SAFE 204 Human Factors in Safety

MT 108 Introductory Technical Mathematics I MT 109 Introductory Technical Mathematics II	Select at least one of the following: MATH 120 Applied Algebra and Trig MATH 130 Pre-calculus MATH 151 Calculus
	<i>SPDI Capstone Course</i>
	SPDI 400 Manufacturing Enterprise

APPENDIX J

AS Manufacturing Engineering Technology to BS Sustainable Product Design and Innovation

AS Manufacturing Engineering Technology	http://www.nhti.edu/academics/academicprograms/degmfet.html	BS Sustainable Product Design and Innovation
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MFET/MET Dept Head: Robert Arredondo (603) 271-7741 rarredondo@ccsnh.edu

The Sustainable Product Design and Innovation major at Keene State College is a pre-professional four-year program offering a cross-disciplinary curriculum to give the student a solid foundation in the artistic, scientific, and technical aspects of product design and the social and scientific aspects of sustainability concerns. Graduates are prepared to pursue graduate study or transition directly into careers in product design/engineering, technology/evaluation, planning, supply, production, quality control, technical services, marketing, sales, or other related professions.

NHTI	KSC
	<i>SPDI Core Courses</i>
MF 202 Measurement and Control AND PH 135 Physics II: Light Sound, Electricity	SPDI 110 Electricity and Electronics Fundamentals
	SPDI 152 Product Design I
MF 220 Manufacturing Processes and Machine Tools	SPDI 180 Metal Processes and Prototyping
	SPDI 252 Product Design II
	SPDI 253 Materials: A Life-Cycle View
MC 103 Design Graphics III	SPDI 221 Three-dimensional CADD
MF 241 Computer Integrated Manufacturing (CIM)	SPDI 352 Product Design III
	<i>Management Core Courses</i>
BU 270 Principles of Management	MGT 101 Introduction to Management
MT 125 Finite Mathematics	MGT 202 Quantitative Decision-making
	MGT 331 Principles of Marketing---OR--- MMGT 446 Competitive Manufacturing Mngmnt
MC 101 Design Graphics I AND MC 102 Design Graphics II	Choose 4 credits from the following: SPDI 121 Drafting, Sketching, and CADD SPDI 170 Introductions to Woodworking Tech SPDI 270 Woodworking Processes SPDI 280 CAD/CAM: Using MasterCAM MGT 451 Social, Legal, and Political Environment of Business SPDI 290 Special Topics SPDI 298 Independent Study

	SPDI 490 Advanced Special Topics SPDI 495 Seminar SPDI 498 Independent Study
	<i>Required Allied Discipline Courses</i>
	**8 credits plus 4 credits Integrative Studies
VRTS 104 Three-dimensional Design (with portfolio review)	IA Art 103 Three-dimensional Design
	SAFE 204 Human Factors in Safety
MT 108 Introductory Technical Mathematics I MT 109 Introductory Technical Mathematics II	Select at least one of the following: MATH 120 Applied Algebra and Trig MATH 130 Pre-calculus MATH 151 Calculus
	<i>SPDI Capstone Course</i>
	SPDI 400 Manufacturing Enterprise

APPENDIX K

AS Addiction Counseling to BS Health Science: Substance Abuse/Addictions

AS Addiction Counseling	http://www.nhti.edu/academics/academicprograms/degaddcouns.html	BS Health Science: Substance Abuse/Addictions Option
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The Substance Abuse/Addictions option at Keene State College is an academic program with practical training in preparation for further studies in the field or entry-level employment in Substance Abuse/Addictions. The program provides students with a theoretical understanding of substance abuse and addictions and an introduction to counseling, treatment, and related practices.

Depending on the criteria of each state, the work in this Substance Abuse/Addictions program may be applied toward becoming a licensed or certified alcohol and drug abuse counselor or prevention specialist.

By the fall 2012 semester, INHLSC 175 will replace all the following courses:

- HLSC 115 Nutrition and Well-Being
- HLSC 125 Nutrition and the Profession
- HLSC 214 Nutrition Fundamentals

NHTI	KSC
	KSC Major Requirements
	Core Courses
HS 150 Introduction to Personal Wellness	HLSC 101 Health and Wellness
	HLSC 285 Health in Society
AD 120 Survey of Addictive Behaviors and Treatment	HLSC 380 Addiction: Theory, Research, and Practice
	HLSC 385 Behavior Change Facilitation
	HLSC 485 Health Promotion Practice
	Select one of the following:
	• HLSC 494 Health Science Capstone • HLSC 495 Seminar: Health Science Research
	Substance Abuse/Addictions Option
	Depending on the criteria of each state, the work in this Substance Abuse/Addictions program may be

	applied toward becoming a licensed or certified alcohol and drug abuse counselor or prevention specialist. Admission Criteria: Overall GPA of 2.5, major GPA of 2.5, and a grade C or higher in HLSC 101 Health and Wellness is required. For transfer students, equivalent transferred courses may be considered if approved by Health Science faculty.
	Substance Abuse/Addictions Requirements
	HLSC 200 Alcohol and Other Drugs: The Fundamentals
BI 259 Normal and Therapeutic Nutrition	HLSC 214 Nutrition Fundamentals
	HLSC 365 Exercise Science and Application
AD 205 Fundamentals of Dependency Counseling Skills	HLSC 382 Addiction Counseling and Management
	HLSC 386 Chemical Dependency Diagnosis and Treatment
	HLSC 492 Internship in Substance Abuse and Addictions
	Select one of the following:
	• HLSC 489 Drug Abuse Prevention • HLSC Advanced Drug Treatment Methods
	Allied Health Requirements
EN 120 Communications	IHCOMM 171 Public Speaking
PY 105 Introduction to Psychology	PSYC 101 General Psychology
BI 195 Anatomy & Physiology I	BIO 230 Human Anatomy & Physiology I w/ lab
BI 196 Anatomy & Physiology II	BIO 232 Human Anatomy & Physiology II w/ lab
CH 103 General Chemistry I	INCHEM 100 Introduction to Chemistry <i>Credits for CH 103 will be accepted. This course meets the Chemistry requirement for the major.</i>

APPENDIX L - General Education and Integrative Studies Program Equivalencies

NHTI, Concord's Community College General Education Courses

All Associate in Science and Associate in Arts degree programs offered at NHTI include a minimum number of credits in General Education courses distributed in accordance with the policy of the Community College System. Courses fulfilling General Education requirements are designed to supplement and expand upon the knowledge and skills acquired in the student's major field courses to help ensure that graduates meet the definition of an "educated person" as set forth in NHTI's Educated Person Statement of Philosophy.

NHTI, Concord's Community College Requirements- 27 credits

KSC ISP

Requirements – 44 credits (11 Courses), with a minimum of eight credits (2 courses) at the 300 and/or 400 level.

Students may have limitations as to how to apply credits toward ISP depending on their chosen major.

All KSC students completing majors in the School of Arts and Humanities must complete one semester of a language other than English

NHTI General Education	KSC ISP
EN 101	ITW 101
Mathematics MT 251	IQL 101
Visual Arts Any FA and EN 295	IA (minimum 4 credits [one course], maximum 8 credits [2 courses] to meet ISP requirements)
Foreign Language, Humanities, Literature, Communications Any EN except 100, 295, HI, PI and FL 110, 111, 112, 115, 116, 121, 122 EC 155	IH (minimum 8 credits [2 courses] maximum 12credits [3 courses] to meet ISP requirements , in two different disciplines)
Science Any BI except 159, 195, 196, 202, 259, 279, CH, PH, SC except 110	IN (minimum 8 credits [2 courses] to meet ISP requirements in two different disciplines)
Social Science Any AN, EO, PS, PY except 298, SO	IS (minimum 8 credits [2 courses] to meet ISP requirements in two different disciplines)
SC 110	II (minimum 4 credits [1 course] to meet ISP requirements)

APPENDIX M

BA American Studies

The American Studies program offers students an interdisciplinary liberal arts education. Students in American Studies engage in a challenging exploration of historical and contemporary American culture and the American multicultural identity, including its past and present values, conflicts, and experiences. American Studies prepares students for career opportunities in elementary and secondary education; graduate school; law school; business; work in libraries, museums, and historic preservation; newspaper, magazine, broadcast journalism; film or media work; work in federal, state, and local agencies, both public and private; government and politics; nonprofit organizations; writing, editing, and publishing; international relations and diplomacy; public relations and advertising; and social services.

→Language Requirement: Each student must demonstrate proficiency in a language other than English

NHTI	KSC
	KSC Major Requirements
	Core Courses
	IIAMST 210 Introduction to American Studies
	IIAMST 250 Interpreting American Cultures
	AMST 350 Perspectives on American Culture
	AMST 495 Seminar
	Select one of the following:
	• AMST 390 Critical Approaches
	• AMST 490 Advanced Special Topics
	Area Courses
	Select two courses from American History:
	• HIST 261 US Social History I: 1603-1865
	• HIST 265 Military in US Society I
	• HIST 266 Military in US Society II
	• HIST 360 American Colonies until 1763
	• HIST 361 The American Revolution
	• HIST 362 Early American Republic 1789-1850
	• HIST 363 US in the Civil War Period: 1850-1876
	• HIST 364 19 th Century America
	• HIST 365 Gilded Age and Progressive Era America
	• HIST 366 US in Crisis: 1920-1950
	• HIST 367 Modern America: 1950-Present
	Select one course in American literature:
	• ENG 280 Cultural Studies
	• ENG 341 Early American Literature
	• ENG 344 Studies in American Literature
	• ENG 345 Studies in African-American Literature
	• ENG 346 Transcendentalism
	• ENG 347 Modern American Indian Literature
	• ENG 370 Studies in Literature of the

	Americas
	Select two courses from Arts & Humanities and/or Social Sciences
	• ART 214 Modern Art
	• IHAMST 248 Cultures of Plains Indians
	• ECON 455 US Economic History
EN 214 American Literature Survey I: to 1865	• IHENG 240 Readings in American Literature
	• IIEG 245 African American Literature and Culture ##
	• IIFR 240 Franco-American Women's Voices
	• IAMU 112 Latin American Music
FA 106 The History of Jazz, Blues, and Rock and Roll	• IAMU 216 History of Rock and Roll
	• MU 218 History of Jazz
	• IAMU 242 Listening to America
	• PHIL 304 American Philosophy
	• ISPOSC 210 US Politics
	• ISPOSC 211 US: State and Local Politics
	• POSC 316 Constitutional Law
	• POSC 321 Foreign Policy and Globalization
	• CJS 101 Introduction to Criminal Justice
	• SOC 345 Sociology of Families
	• SOC 270 Urban Society
	• SOC 472 Sociology of Health and Medicine
	• SOC 475 Social Stratification
	• SP 330 Latinos in the United States

BA Earth/Space Science

This program is designed to prepare candidates for teaching Earth/Space science in grades 7-12. In addition to meeting all of the degree requirements set by Keene State College (Earth/Space, education, and integrative studies), this program will result in certification for secondary school teaching by the state of New Hampshire in a nationally recognized science education program.

Please note that students seeking certification at the secondary level in Earth and Space Science should refer to the Secondary Education option in the Education major section of the catalog for a list of additional course requirements.

BA in Earth/Space Science with Secondary Education Certification --- 126 credits

BA without certification --- 120 credits

NHTI	KSC
	Major Requirements
	INGEOL 151 Physical Geology
	GEOL 206 Oceanography
	GEOL 301 Mineralogy

	GEOL 305 Paleontology
	GEOL 306 Sedimentation and Stratigraphy
	GEOL 315 Environmental Geology
SC 107 Introduction to Meteorology	INMET 225 Meteorology
CH 103 General Chemistry I	INCHEM 111 General Chemistry I & Lab
CH 104 General Chemistry II	CHEM 112 General Chemistry II & Lab
PH 133 Physics I: Mechanics, Heat	INPHYS 141 College Physics I
	BIO 111 Evolution
MT 251 Statistics	MATH 141 Statistics
	Select one of the following:
SC104 Astronomy and Space	INASTR 107 Introduction to Astronomy
	ASTR 307 University Astronomy
	Select one of the following:
MT 113 Accelerated Introductory Mathematics	MATH 120 Applied Algebra and Trigonometry
MT 134 Pre-calculus	MATH 130 Precalculus
MT 205 Calculus I	MATH 151 Calculus I

BA Economics

The B.A. in Economics combines rigorous training in economic theory with application to contemporary issues such as globalization, financial market volatility, and the environment. The Economics program is a tight-knit community, and majors and minors can expect to work closely with faculty and with each other. The economic honors society, Omicron Delta Epsilon, organizes field trips to conferences and brings in visiting speakers and alumni. Recent graduates have gone on to careers in business and government, to law school, and to graduate programs in economics and politics, as well as M.B.A. programs.

NHTI	KSC
	KSC Major Requirements
	Core Courses
	IHPHIL 100 Logical Argumentation
	Select one of the following:
MT 251 Statistics	MATH 141 Introductory Statistics
	PSYC 251 Psychological Statistics
EO 102 Microeconomics	ECON 103 Introduction to Microeconomics
EO 101 Macroeconomics	ISECON 104 Introduction to Macroeconomics
	ISECON 360 History of Economic Thought
	ECON 203 Intermediate Microeconomics
	ECON 204 Intermediate Macroeconomics
	ECON 491 Economic Research Project
	Economics Electives
	12 credits of 300- or 400-level Economics courses

BA English: Writing option

Students in the writing option also read a great deal of literature and study literary method, but focus their coursework on the writing of poetry, fiction, and creative nonfiction. Students may not pursue both the Writing option and the Writing minor. English/Secondary Education majors may not choose the Writing option.

LANGUAGE REQUIREMENT: Each student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities.

NHTI	KSC
	Major Requirements
	Complete a minimum of 10 courses
	Choose one course from:
EN 295A Creative Writing: Fiction OR	IAENG 204 Creative Writing
EN 295 B Creative Writing: Poetry	
EN 295C Creative writing: Nonfiction	ENG 202 Creative Nonfiction Writing
	ENG 208 Topics in Writing
	Also required:
	ENG 215 Literary Analysis
	ENG 315 Literary Form and History
	ENG 402 Theory and Practice
	ENG 405 Writing Portfolio
	Three ENG electives at the 300 or 400 level, including one pre-1800 literature and one Differing Cultural Perspectives course.
	Choose two additional writing courses at the 300 or 400 level (other than ENG 405)
	ENG 301 Fiction Workshop
	ENG 302 Poetry Workshop
	ENG 303 Nonfiction Workshop
	ENG 306 Autobiography Workshop
	ENG 308 Advanced Topics in Writing
	ENG 497 Writing/Publishing Workshop
	Courses that meet the pre1800 requirement:
	ENG 321 English Literature: Beginnings to 18th Century
	ENG 323 Medieval Literature
	ENG 324 Chaucer
	ENG 341 Early American Literature
	ENG 326 English Renaissance Literature
	ENG 327 Shakespeare: Poetry and Plays
	Courses that meet the Differing Cultural Perspectives requirement:
	IHAMST 248 Cultures of Northern Plains Indians
	IIENG 245 Readings in African American Literature and Culture
	IHENG 252 Literature of the Holocaust
	ENG 345 Studies in African American Literature
	ENG 347 Modern American Indian Literature
	ENG 370 Studies in Literatures of the Americas
	When appropriate, the following may fulfill either the pre-1800 literature or Differing Cultural Perspectives requirement:
EN 210 British Literature I OR EN 255 Shakespeare	IHENG 220 Readings in British Literature

<i>Either fulfills pre-1800 literature requirement</i>	
EN 214 American Literature Survey I: 1865 to present	IHENG 240 Readings in American Literature
OR	
EN 291A Contemporary Latin American Literature <i>Fulfills Differing Cultural Perspectives requirement</i>	
	IHENG 250 Readings in Continental Literature
	IHENG 260 Readings in World Literature
EN 287 Women in Literature OR	ENG 290 Topics
EN 291A Contemporary Latin American Literature <i>Fulfills Differing Cultural Perspectives requirement</i>	
OR	
EN 210 British Literature I <i>Fulfills pre-1800 literature requirement</i>	
OR	
EN 255 Shakespeare <i>Fulfills pre-1800 literature requirement</i>	
	ENG 330 Studies in British Literature
	ENG 344 Studies in American Literature
	ENG 350 Studies in Continental Literature
	ENG 360 Studies in World Literature
	ENG 370 Studies in Literature of the Americas
	ENG 381 Women Writers
	ENG 390 Studies
	ENG 395 Advanced Sequence I
	ENG 490 Advanced Studies
	ENG 495 Advanced Sequence II

BA General Science

The B.A. in General Science provides a broad-based foundation in three major areas: Earth/Space Science, Life Science, and Physical Science. This major would provide general science knowledge for working in science museums, zoos, science camps, or state or national parks.

NHTI	KSC
	Major Requirements
SC 104 Astronomy and Space	INASTR 101 Introduction to Astronomy
	BIO 110 Molecules and Cells
	BIO 111 Evolution
	INGEOL 151 Physical Geology
	GEOL 206 Oceanography
SC 107 Introduction to Meteorology	INMET 225 Meteorology
	Select one course:
MT 113 Accelerated Introductory Mathematics MT 134 Pre-calculus	MATH 120 Applied Algebra and Trigonometry

MT 205 Calculus I	• MATH 130 Precalculus • MATH 151 Calculus I
	Bachelor of Arts Requirements
MT 251 Statistics	MATH 141 Introductory Statistics
	BIO 210 Ecology
CH 103 General Chemistry I	INCHEM 111 General Chemistry I
CH 104 General Chemistry II	CHEM 112 General Chemistry II
	CHEM 221 Organic Chemistry I
	CHEM 222 Organic Chemistry II
	GEOL 252 Evolution of the Earth
PH 133 Physics I: Mechanics, Heat	INPHYS 141 College Physics I
PH 135 Physics II: Light, Sound, Electricity	PHYS 142 College Physics II
	In addition to the above, complete a specialization (three or more courses at 300 level or higher) in <u>one</u> of the following areas: Biology, Chemistry, Environmental Studies, or Geology

BA General Science: Education

The B.A. in General Science provides a broad-based foundation in three major areas: Earth/Space Science, Life Science, and Physical Science. It is an ideal major for the pre-service elementary or middle school teacher as it addresses national recommendations for improving science education with an activity and hands-on focus. The middle school option meets N.H. state certification requirements for grades 5-9

Students must fulfill the “major requirements” below while also selecting either educational level option also found below. In addition, degree requirements must be met for the Education major (as listed in the college catalog under “Education”) at the chosen level (see following breakdown of hours)

BA in General Science: Education – dual major

Elementary: 48 hours Gen Sci major, 48 hours elementary education courses

Middle School: 60 hours Gen Sci major, 34 hours education courses

NHTI	KSC
	Major Requirements
SC 104 Astronomy and Space	INASTR 101 Introduction to Astronomy
	BIO 110 Molecules and Cells
	BIO 111 Evolution
	INGEOL 151 Physical Geology
	GEOL 206 Oceanography
SC 107 Introduction to Meteorology	INMET 225 Meteorology
	Select one course:
MT 113 Accelerated Introductory Mathematics	MATH 120 Applied Algebra and Trigonometry
MT 134 Pre-calculus	MATH 130 Precalculus
MT 205 Calculus I	MATH 151 Calculus I
	Elementary or Early Childhood Option
	INCHEM 103 Fundamentals of Chemistry
	INPHYS 201 Phenomenal Science
	GM 301 The Web of Science
	Also select two additional science courses at the 200 level or higher in either the same or different areas:

	Biology, Chemistry, Environmental Studies, and/or Geology
	Middle School Option
CH 103 General Chemistry I	INCHEM 111 General Chemistry I
CH 104 General Chemistry II	CHEM 112 General Chemistry II
	BIO 210 Ecology
MT 251 Statistics	MATH 141 Introductory Statistics
	INPHYS 201 Phenomenal Science
	IIPHYS 210 History of Science
	Also complete a specialization (two or more additional courses at the 200 level or higher) in one of the following areas: Biology, Chemistry, Environmental Studies, or Geology.

BA History

By combining the development of specific skills with the acquisition of a body of historical knowledge, the History major prepares students for successful careers in primary and secondary education (history and social studies), business and industry, and governmental service. The major also prepares students for graduate study in history, law, and other academic and professional fields.

Students majoring in History are required to complete 36 credit hours in History, 20 credits of which must be in **one** of the following areas of specialization:

- U.S. History
- European History
- 19th-Century Studies
- 20th-Century Studies

At least 16 of the 20 credit hours toward the area of specialization must be at the 300 level (or higher). At least 4 of the 20 credit hours must be at the 400 level.

Students majoring in History must also complete History 200: Reading and Writing in History.

→Language Requirement: Each student must demonstrate proficiency in a language other than English.

MAJOR REQUIREMENTS

36 credits

- **4 credits** at the 100 level
- **8 credits** at the 200 level, including History 200
- **16 credits** at the 300 level
- **8 credits** at the 400 level

Following please find listings of NHTI courses which match available KSC courses:

NHTI	KSC
HI 104 Western Civilization: Antiquity to 1650 or HI 105 Western Civilization: 1650 to Present or HI 131 World History I (to 1500) or HI 132 World History II (1500-present)	Meets the 4 credit 100-level requirement. <i>Equivalent to HIST 141 & 142 for Western Civilization I/II and to HIST 111 & HI 112 for Modern World Civilization</i>
HI 120 United State History to 1870	HIST 161 Topics in US History I
HI 121 United States History, 1870 to Present	HIST 162 Topics in US History II

BA Mathematics: Mathematics option

The Bachelor of Arts in Mathematic provides students breadth and depth through an integrated approach to the study of mathematics. The program prepares students for either an immediate career, especially teaching, or graduate school.

A decision to undertake the Mathematics major should be made no later than the beginning of the sophomore year if the program is to be completed in four years. Students entering as Mathematics majors should take MATH 151 Calculus I as soon as possible.

NHTI	KSC
	KSC Major Requirements
	Core Courses
MT 205 Calculus I	MATH 151 Calculus I
MT 206 Calculus II	MATH 152 Calculus II
	MATH 225 Introduction to Abstract and Discrete Mathematics
	MATH 231 Linear Algebra and Differential Equations
	MATH 241 Probability and Statistics
	MATH 300 Introduction to Algebra and Analysis
	MATH 400 Capstone in Mathematics
	Select one course from the pure area:
	MATH 320 Geometry (required for prospective secondary teachers)
	MATH 337 Number Theory
	MATH 490 Topics in Pure Mathematics
	Select one course from the applied area:
MT 210 Differential Equations	This course will apply in this area
MT 251 Statistics	MATH 141 Introductory Statistics MATH 242 Applied Statistics
	MATH 251 Vector Calculus
	MATH 341 Probability and Statistics II
	MATH 360 Numerical Methods
	MATH 361 Differential Equations
	MATH 365 Mathematical Modeling
	Plus one additional mathematics course at the 300-level or above, including IIMATH 310 and IIMATH 315

	Plus both of the following courses:
CP 235 Algorithms with Object Oriented Programming	CS 140 Computer Programming I
	INPHYS 241 University Physics I

BA Psychology

The psychology program prepares students for success in a graduate program in psychology and/or a career in a psychology related field. The program exposes students to the methodologies, problems, bodies of knowledge, and broad range of perspectives found currently in psychology.

The application process for formal admission to the Psychology major occurs during the first or second semester of the sophomore year, e.g., upon completion of PSYC 101, PSYC 251, and either PSYC 242 or PSYC 253. To be admitted to the major, the student must achieve a minimum GPA of 2.5 and no less than a grade C in any of these three courses, and must be in good academic standing with the College.

NHTI	KSC
	KSC Major Requirements
	Core Courses
PY 105 Introduction to Psychology	PSYC 101 General Psychology
	PSYC 251 Psychological Statistics
	PSYC 252 Research Methods in Psychology
	PSYC 253 Brain and Behavior
	PSYC 382 History of Psychology
	PSYC 495 Seminar
	Psychology Electives
	Select at least two courses from one of the following groups and at least one from each of the remaining groups
	Group 1
	PSYC 242 Personality
	PSYC 340 Psychological Testing
PY 210 Abnormal Psychology	PSYC 345 Abnormal Psychology
PY 280 Individual Counseling: Theory and Practice PY 280 Group Counseling	PSYC 444 Counseling
	PSYC 447 Clinical Psychology
	Group 2
PY 225 Social Psychology	PSYC 221 Social Psychology
	PSYC 311 Child/Adolescent Psychology
	PSYC 314 Adulthood and Aging
	PSYC 332 Ethology
	PSYC 425 Psychology of Women
	Group 3
	PSYC 321 Culture and Psychology
	PSYC 355 Psychology of Learning
	PSYC 357 Cognitive Processes
	PSYC 451 Motivation
	PSYC 453 Sensation and Perception

BS Sociology

The Sociology program offers students knowledge and resources to search systematically for answers to questions about society. Sociology students develop a sociological imagination, which is the ability to grasp the close relationship between personal experiences and the larger social world. Our majors study social and cultural forces that shape individual and group behavior using a variety of scientific methods such as surveys, interviews, observation, and content analysis. By studying and critically assessing sociological theories, sociology students also describe, interpret, and explain how the world works.

Core courses provide excellent training in sociological concepts, theories, and methods. Electives focus on topics like the environment, popular culture, families, inequalities, race and ethnicity, crime and deviance, anthropology, and global society. Sociology majors may also engage in community research, service-learning projects, internships, and travel through coursework. Students with a bachelor's degree in sociology are well prepared for graduate and professional studies and careers using their interpersonal skills and specialized knowledge in the areas of education, social services, human rights, health and wellness, justice, advocacy, and research.

To earn a degree in Sociology, the student must earn a grade C or better in the following core courses: SOC 201 SOC 301, SOC 303, and SOC 305. Courses may be retaken as needed to meet this requirement.

NHTI	KSC
	Core Courses
SO 105 Introduction to Sociology	SOC 201 Introduction to Sociology Major
	SOC 301 Sociological Research Methods
	SOC 303 Sociological Quantitative Analysis
	SOC 305 Sociological Theory
	KSC Major Requirements
	Select one of the following:
	ISANTH 110 Cultural Anthropology
	ISANTH 111 Archeology and Physical Anthropology
	Select one of the following:
	HGS 427/SOC 427 Sociological Topics in Genocide
	SOC 450 Mind, Self, and Society
	SOC 455 The Body and Sexuality in Society
	SOC 461 White-Collar Crime
	SOC 472 Sociology of Health and Medicine
	SOC 475 Social Stratification
	SOC 480 Political Sociology
	SOC 485 Science and Society
	SOC 490 Advanced Topics in Sociology
	Sociology Electives
SO 205 The Individual and Society SO 214 Race and Ethnic Relations SO 226A Service Citizenship, and Community SO 240 Marriage, Family, and Personal Relationships SO 250 Conflict Resolution in Modern Society SO 298 Travel/Study Abroad Experience	12 credits in sociology electives must be taken. Four credit hours of Anthropology courses can be used to satisfy this requirement

BS Chemistry

The B.S. in Chemistry should serve as a general preparation for a professional scientist. The major was designed according to guidelines from the American Chemical Society (ACS) to be rigorous, yet flexible enough to allow for preparation for immediate employment, graduate study, or work in an allied profession.

NHTI	KSC
	Integrative Studies Requirements
CH 103 General Chemistry I	INCHEM 111 General Chemistry I
CH 104 General Chemistry II	CHEM 112 General Chemistry II
	CHEM 221 Organic Chemistry I
	CHEM 222 Organic Chemistry II
	CHEM 251 Quantitative Analysis
	CHEM 341 Physical Chemistry I
	CHEM 342 Physical Chemistry II
	CHEM 363 Inorganic Chemistry
	CHEM 375 Biochemistry
	CHEM 421 Advanced Synthetic Chemistry
	CHEM 454 Instrumental Analysis
	Select from one of the following:
	CHEM 321 Organic Chemistry III
	CHEM 333 Medicinal Chemistry
	CHEM 373 Polymer Chemistry
	Related Field
MT 251 Statistics	MATH 141 Introductory Statistics
MT 205 Calculus I	MATH 151 Calculus I
MT 206 Calculus II	MATH 152 Calculus II
	Select one PAIR from the following:
PH 133 Physics I: Mechanics, Heat and PH 135 Physics II: Light, Sound, Electricity	INPHYS 141 College Physics I and PHYS 142 College Physics II
	INPHYS 241 University Physics I and PHYS 242 University Physics II
BI 111 General Biology I BI 112 General Biology II	BIO 110 Molecules and Cells

BS Education: Secondary

Building on the historical legacy of teacher preparation at Keene State College, the Education program mission is to prepare competent, reflective classroom teachers and other professional school personnel who utilize effective teaching practices and who create developmentally appropriate educational environments for diverse learners. Keene State College has been an NCATE accredited institution since 1954.

Transfer Credits - Students who wish to transfer credits into a teacher certification option must apply through the department chair. ** The PRAXIS must be passed prior to acceptance to KSC Education program.

Liberal Arts Major - The New Hampshire State Department of Education requires students completing Education majors to also demonstrate depth of knowledge in a content area. Therefore, Education majors must also fulfill requirements of a liberal arts major.

Students seeking certification in **Middle or Secondary Education** are required to complete a liberal arts major in **one** of the following areas:

- Biology
- Chemistry
- Chemistry – Physics
- Earth/Space Science
- English
- General Science
- Geography
- Geology
- History
- Mathematics
- Modern Languages (French or Spanish)
- Physical Science
- Social Science

It is **STRONGLY** recommended that a transfer student complete a number of these courses in their selected liberal arts major prior to transfer to ensure course sequencing and to enter KSC with a solid foundation.

NHTI	KSC
ED 104 Foundations of Education	EDUC 100 Issues in Education
ED 207 Teaching and Learning Process ED 212 Design of Instruction	EDUC 231 Curriculum for a Diverse World
	EDUC 331 Secondary Methods I
ED 200 Supporting Students with Challenging Behaviors	EDUC 332 Secondary Classroom Management
ED 101 Introduction to Exceptionalities ED 203 Teaching Strategies for Diverse Learners	EDSP 333 Secondary Special Education Issues
	EDUC 431 Secondary Methods
	EDUC 432 Education Theories/Trends
	EDUC 400 Student Teaching

BS Environmental Studies

The Environmental Studies (ENST) major provides students with a conceptual framework and set of skills needed to make effective, relevant, and sustaining contributions to society with respect to environmental issues, both as professional practitioners and as individual citizens.

NHTI	KSC
	Courses recommended but not required
	INGEOL 151 Physical Geology
CH 105 Chemistry	INCHEM 103 Fundamentals of Chemistry
EO 101 Macroeconomics	ISECON 104 Intro to Macroeconomics
	ISGEOG 204 Physical Geography
MT 251 Statistics	MATH 141 Statistics
	Major Requirements
	IENST 151 Environment of Central New England
	IENST 152 Principles of Sustainability

BI 212 Ecology	ENST 251 Matter and Energy in the Environment I
ENV 101 Fundamentals of Environmental Science	ENST 252 Ecology of a Changing Planet I
	ENST 253 Environmental Governance
	ENST 395 Junior Seminar
	ENST 495 Senior Seminar
	Select one of these human dimension courses:
	ENST 304 Environmental Law and Regulation
	ENST 308 Environmental Issue Management
	ENST 404 Risk and the Environment
	ENST 431 Environmental Policy Analysis
	Select one of the environmental science courses:
	ENST 312 Energy and Sustainability
	ENST 352 Conservation of Ecological Systems
	ENST 452 Ecosystems and the Environment
BI 215 Freshwater Ecology	ENST 460 Groundwater in the Environment
	Select two additional courses at the 300 level or above in ENST:
	ECON 340 Environmental Economics
	GEOG 330 Natural Resource Management
	GEOG 332 Global Water resources
AR 160 Introduction to Geographic Information Systems	GEOG 324 Vector GIS
	GEOG 327 Environmental Remote Sensing
	POSC 315 Environmental Policy
	SOC 380 Environmental Sociology

BS Health Science: Health Promotion/ Wellness

Health Promotion and Wellness option graduates work to change policies, environments, attitudes, and behaviors that affect health. The Community Health specialization prepares students for professional careers in community health education, global health, or for graduate programs in public health or health education. The Behavior and Health Specialization prepares students for such graduate programs as Health Psychology, Pain Management, or Behavioral Health.

By the fall 2012 semester, INHLSC 175 will replace all the following courses:

- HLSC 115 Nutrition and Well-Being
- HLSC 125 Nutrition and the Profession
- HLSC 214 Nutrition Fundamentals

NHTI	KSC
	KSC Major Requirements
	Core Courses
HS 150 Introduction to Personal Wellness	HLSC 101 Health and Wellness
	HLSC 285 Health in Society
AD 120 Survey of Addictive Behaviors and Treatment	HLSC 380 Addiction: Theory, Research, and Practice
	HLSC 385 Behavior Change Facilitation

	HLSC 485 Health Promotion Practice
	Select one of the following:
	HLSC 494 Health Science Capstone
	HLSC 495 seminar: Health Science Research
	Health Promotion and Wellness Option
	<i>The Health Promotion and Wellness option offers two specializations: Community Health and Behavior and Health. Students select one of the specializations and complete option requirements and specialization requirements.</i>
	Health Promotion and Wellness Requirements
BI 259 Normal and Therapeutic Nutrition	HLSC 214 Nutrition Fundamentals
	HLSC 365 Exercise Science and Application
	Allied Discipline Requirements
BI 195 Anatomy & Physiology I	BIO 230 Human Anatomy & Physiology w/ lab
BI 196 Anatomy & Physiology II	BIO 232 Human Anatomy & Physiology w/ lab
CH 103 General Chemistry I	INCHEM 100 Introduction to Chemistry <i>Credits for CH 103 will be accepted. This course meets the Chemistry requirement for the major.</i>
EN 120 Communications	IHCOMM 171 Public Speaking
PY 105 Introduction to Psychology	PSYCH 101 General Psychology
	Community Health Specialization Requirements
	HSLC 305 Epidemiology in Health Science
	Select one:
MT 251 Statistics	MATH 141 Introductory Statistics
	MATH 142 Applied Statistics
	Behavior and Health Specialization Requirements
	Select one:
	HLSC 318 Nutrition throughout Lifespan
PY 220 Human Growth & Development: The Life Span	PSYC 311 Child and Adolescent Psychology
	PSYC 314 Adulthood and Aging
	HLSC 330 Health Psychology
PY 225 Social Psychology	PSYC 221 Social Psychology
	PSYC 242 Personality
	PSYC 253 Brain and Behavior
PY 210 Abnormal Psychology	PSYC 345 Abnormal Psychology

BS Health Science: Nutrition

As an option under the BS in Health Science, this nutrition option provides the basic academic preparation necessary to become a registered dietitian (RD). Certification as an RD is often mandatory for professional positions and requires completion of an approved postgraduate supervised practice program.

Typically, a student who successfully completes the ADA-approved curriculum, an ADA-accredited internship or pre-professional practice program, and the registration examination becomes qualified as a health professional responsible for services in areas such as nutrition service-related management, clinical or community dietetics, education, consultation, private practice, and research.

By the fall 2012 semester, INHLSC 175 will replace all the following courses:

HLSC 115 Nutrition and Well-Being

HLSC 125 Nutrition and the Profession

HLSC 214 Nutrition Fundamentals

NHTI	KSC
	KSC Major Requirements
	Core Courses
	HLSC 101 Health and Wellness
	HLSC 285 Health in Society
AD 120 Survey of Addictive Behaviors and Treatment	HLSC 380 Addiction: Theory, Research, and Practice
	HLSC 385 Behavior Change Facilitation
	HLSC 485 Health Promotion Practice
	Select one of the following:
	- HLSC 494 Health Science Capstone - HLSC 495 seminar: Health Science Research
	Nutrition Option
	<i>This option provides the basic academic preparation necessary to become a registered dietitian (RD). Students must have an overall GPA of 2.8. After completion of the following courses with an average of B or higher (3.0), students interested in pursuing the Nutrition option must submit an application for permanent admission to the Health Science Nutrition option:</i> - HLSC 101 Health and Wellness - HLSC 125 Nutrition and the Profession - INCHEM 103 Fundamentals of Chemistry For transfer students, equivalent transferred courses may be considered if approved by the Admissions Committee.
	Required for admission consideration
	HLSC 101 Health and Wellness
BI 259 Normal and Therapeutic Nutrition	HLSC 125 Nutrition and the Profession
CH 100 Introductory Chemistry	INCHEM 103 Fundamentals of Chemistry <i>Credits for CH 100 will be accepted. This course meets the Chemistry requirement for the major</i>
	Nutrition Option requirements
BI 259 Normal and Therapeutic Nutrition	HLSC 125 Nutrition and the Profession
	HLSC 215 Nutrition Science and Application
	HLSC 216 Current Topics in Food Culture

	HLSC 310 Food Science
	HLSC 313 Foodservice Management
BI 279 Life Cycle Nutrition	HLSC 318 Nutrition Throughout the Lifespan
	HLSC 365 Exercise Science and Application
	HLSC 410 Experimental Foods
	HLSC 415 Nutritional Biochemistry
	HLSC 416 Medical Nutrition Therapy
	HLSC 473 Practicum: Nutrition
	Allied Discipline Requirements
BI 195 Anatomy & Physiology I	BIO 230 Human Anatomy & Physiology I w/ lab
BI 196 Anatomy & Physiology II	BIO 232 Human anatomy & Physiology II w/ lab
	BIO 240 Cell and Microbial Biology
CH 100 Introduction to Chemistry	INCHEM 103 Fundamentals of Chemistry w/ lab <i>Credits for CH 100 will be accepted. This course meets the Chemistry requirement for the major</i>
CH 205 Organic Chemistry	CHEM 220 Fundamental Organic Chemistry w/ lab
EN 120 Communications	IHCOMM 171 Public Speaking
PY 105 Introduction to Psychology	PSYC 101 General Psychology

BS Mathematics - Physics

This interdisciplinary program provides sufficient groundwork in both mathematics and physics for employment in industry, the commercial sector, or further study in graduate school. Students who are interested in an engineering degree may elect this program, complete major requirements over three years, transfer to an engineering school of choice, and be awarded both the B.S. in Mathematics - Physics from Keene State and the appropriate engineering bachelor's degree.

NHTI	KSC
	Major Requirements
MT 205 Calculus I	MATH 151 Calculus I
MT 206 Calculus II	MATH 152 Calculus II
	MATH 251 Vector Calculus
	MATH 231 Linear Algebra And Differential Equations
MT 210 Differential Equations	MATH 361 Differential Equations
	INPHYS 241 University Physics I
	PHYS 242 University Physics II
	PHYS 260 Electronics
	PHYS 342 Modern Physics
	PHYS electives (8 credits, 300 level or higher)
	Related Fields
CP 235 Algorithms with Object Oriented Programming	CS 140 Computer Programming
CH 103 General Chemistry I	INCHEM 111 General Chemistry I
CH 104 General Chemistry II	CHEM 112 General Chemistry II

BS Physical Education: Exercise Science Option

Exercise Science is a multidisciplinary science-based program, which is fast growing and ever changing. It is intended for students who would like to pursue a career in exercise science, sports medicine, or allied health. Exercise Science is an area of study that prepares students for a variety of professions that include competitive sports, community recreation, health and wellness, rehabilitation, and medicine.

Transfer students may be eligible to apply for admission after one semester at KSC, but must have completed INCHEM 100 Introduction to Chemistry or an equivalent course and BIO 230 Human Anatomy and Physiology I or an equivalent course before applying. Criteria for admission are as follows:

- Academic progress: Overall GPA of 2.5, major GPA of 2.5 and a grade of C or higher in the following courses:
 - HLSC 101 Health and Wellness
 - PE 191 Standard First Aid/CPR
 - PE 250 Concepts of Exercise Training
- Professional recommendations: Two recommendations for admission by KSC faculty (minimum one faculty member recommendation from outside of the Physical Education Department)
- Professional orientation: Documentation of progress in professional role modeling, professional writing, and professional experience

Retention standards

- Enrollment in PE 372, PE 472, and PE 492 requires the following standards:
 - Student must receive a C or better in all required Exercise Science option courses
 - Student must maintain a cumulative GPA of 2.5 and a major GPA of 2.5

NHTI	KSC
	Allied Requirements
CH 103 General Chemistry I	INCHEM 100 OR INCHEM 103 OR INCHEM 111 <i>Credits for CH 103 will be accepted. This course meets the Chemistry requirement for the major.</i>
BI 195 Anatomy & Physiology I	BIO 230 Human Anatomy & Physiology I
BI 196 Anatomy & Physiology II	BIO 232 Human Anatomy & Physiology II
PY 105 Introduction to Psychology	ISPSYC 100 Topics in Psychology
	Exercise Science Option Requirements
CHWN 101 Foundations of Health & Wellness	HLSC 101 Health and Wellness
	PE 191 Standard First Aid/CPR (1 credit)
	PE 200 Applied Kinesiology
	PE 201 Physiology of Exercise
	PE 250 Concepts of Exercise Training
	PE 232 Exercise Programming and Testing
	PE 335 Advanced Strength and Conditioning
BI 229 Nutrition in Exercise and Sports	PE 344 Sports Nutrition
	PE 372 Practicum: Exercise Leadership
	PE 460 Experimental Design and Analysis in PE
	Select one: PE 472 Exercise Science Externship (4-12 cr) PE 492 Exercise Science Seminar
	Specialization requirements

	Complete one of the following areas:
	• Health Specialization
IDS 120 Global Public Health Issues	HLSC 285 Health in Society
PY 226A Sport and Exercise Psychology	Select one: HLSC 330 Health Psychology IIPE 310 Psychosocial Aspects of Sport
	HLSC 431 Stress Management
	• Coaching Specialization
	PE 210 Introduction to Coaching
	Select one: MGT 260 Sports Management IIPE 310 Psychosocial Aspects of Sport
	PE 371 Coaching Practicum

BS Safety and Occupational Applied Health Sciences

This major prepares students for a variety of occupational safety and health program management positions in the private and public sector. Emphasis is placed on critical thinking, hazard identification and prioritization, problem solving, cost effectiveness, professional skills in programmatic management, and safety and environmental regulatory compliance. Graduates will have the capacity to pursue graduate study, participate in applied research, or transition directly into careers in loss control, risk management, organizational safety, and consulting.

NHTI	KSC
	Major Requirements
	Core Courses
	SAFE 101 Safety Awareness
	SAFE 202 Occupational Safety
	SAFE 302 Law and Ethics in Safety
	SAFE 303 Safety and Health Standards
	SAFE 305 Health Hazard Identification
	Safety Electives
	Select four of the following (two must be 300 level or above)
	SAFE 203 Fire and HAZMAT Response
	SAFE 204 Human Factors in Safety
	SAFE 205 Behavioral Based Safety
	SAFE 290 Special Topics in Safety
	SAFE 301 Loss Prevention
	SAFE 304 Environmental Regulation
	SAFE 401 Industrial Hygiene
	SAFE 402 Critical Incident Response
	SAFE 490 Adv Special Topics in Safety
	SAFE 405 Safety Seminar
	Allied Requirements
BU 270 Principles of Management	MGT 101 Intro to Management
BU 273 Human Resource Management	MGT 324 Human Resource Management
CH 105 Chemistry	INCHEM 103 Fundamentals of Chemistry
	Safety Capstone

	SAFE 497 Innovative Safety Leadership
	Internships
	SAFE 200 Safety Internship (2-8 credits)
	SAFE 400 Adv Safety Internship (2-8 credits)

SCOPE OF THE AGREEMENT

This agreement and its Appendices, contains the entire Agreement of the parties and cancels and supersedes any previous understanding or Agreement, whether written or oral. All substantial changes or major modifications to this Agreement must be agreed to in writing between the parties.

Use of Agreement in Electronic Form: Both parties agree that they may: (a) convert this Agreement to electronic form, (b) retain it solely in such form, and (c) in the event of any dispute, provide it in such form or a copy from such form. The parties further agree that the Agreement in such form (or a copy), including the application of industry security standards for digital signatures, shall not be denied legal effect, validity, or enforceability due to its form and shall meet any requirement to provide an original.

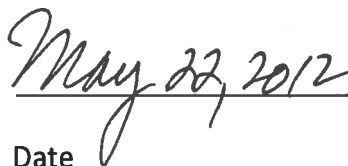
SIGNATURE SECTION

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their respective signatory officials thereunto duly authorized as of the day and year first above written.

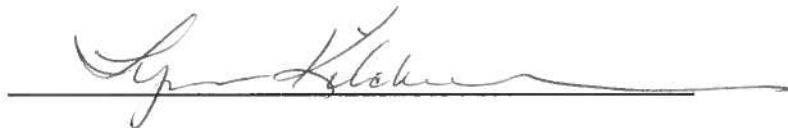


Dr. Helen Giles-Gee

President, Keene State College

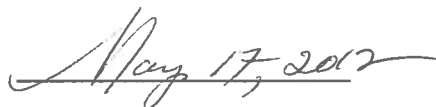


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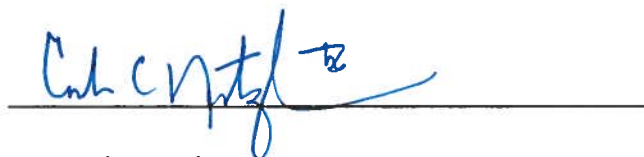


B. Lynn T. Kilchenstein, MA

President, NHTI, Concord's Community College



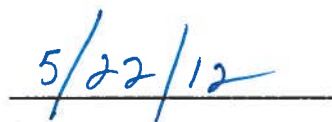
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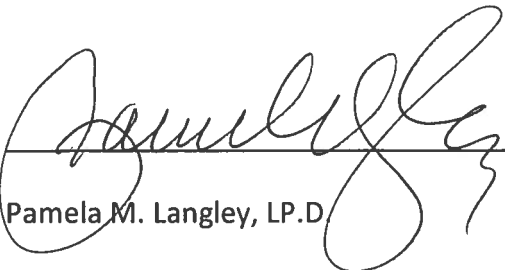
Dr. Emile Netzhammer III

Provost and Vice President of Academic Affairs

Keene State College



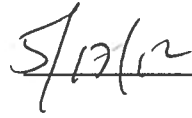
Date



Pamela M. Langley, LP.D

Vice President, Academic Affairs

NHTI, Concord's Community College



Date