

# **NZ CERTIFICATE IN STUDY AND CAREER PREPARATION, LEVEL 3 (4 courses, 60 credits)**

## **PATHWAY COHORTS AND COURSES**

**SEMESTER ONE 2017**

Version 28/11/16

<b>MT ALBERT</b>	Course 1	Course 2	Course 3	Course 4
<b>NURSING A</b>	Identity & Communication FSTU3926 Susan Watene	Pathway Project FSTU3902 Avian McManus	Bioscience FSTU3921 Elaine Whitworth	Nursing Maths FSTU3913 Cheryl Henderson
<b>NURSING B</b>	Identity & Communication FSTU3926 Avian McManus	Pathway Project FSTU3902 Jackie Tims	Bioscience FSTU3921 Elaine Whitworth	Nursing Maths FSTU3913 Debbie Loveridge
<b>ART AND DESIGN</b>	Identity & Communication FSTU3926 Michael Freeman	Art & Design 2D FSTU3931 Michael Freeman	Art & Design 3D FSTU3932 Michael Freeman	Toi Maori MAOR3999 Hohepa Renata
<b>ENGINEERING A</b>	Physics FSTU3922 Sue Tulett	Pathway Project FSTU3902 Manu'a Poloai	Introduction to Algebra FSTU3912 Sarah Hangartner	Maths Algebra FSTU3914 Sarah H
<b>ENGINEERING B</b>	Physics FSTU3922 Sue Tulett	Pathway Project FSTU3902 Ronnie Nicholson	Maths Algebra FSTU3914 Margaret Evans	Science Maths FSTU3911 Margaret Evans

MT ALBERT	Course 1	Course 2	Course 3	Course 4
<b>SOCIAL DEVELOPMENT</b>	Identity & Communication FSTU3926 Cordelia Lockett	Sociology FSTU3927 Cordelia Lockett	Cultures in Aotearoa FSTU3924 Susan Watene	<b><u>ELECTIVE (CHOOSE ONE)</u></b> Foundation Maths FSTU2910 Debbie Loveridge/TBC 1 <b>OR</b> Maths with Numeracy FSTU3910 Cheryl Henderson/TBC 1 <b>OR</b> Cultures in Aotearoa FSTU3924 Susan Watene <b>OR</b> Psychology (for Social Development only) FSTU3928 Rae Trewartha <b>OR</b> Course 4 (TBC)
<b>EDUCATION</b>	Identity & Communication FSTU3926 Avian McManus	Children's Literature FSTU3930 Tui Matelau	Psychology FSTU3928 Ronnie Nicholson	
<b>HEALTH / NATURAL SCIENCES</b>	Identity & Communication FSTU3926 Anne Kayes	Pathway Project FSTU3902 Elaine Whitworth Combined with 3NURS/HNS	Bioscience FSTU3921 Elaine Whitworth	
<b>SPORT</b>	Identity & Communication FSTU3926 TBC 3		Bioscience FSTU3921 Vinesh Sima	
<b>BUSINESS</b>	Identity & Communication FSTU3926 Clare Goodwin	Pathway Project FSTU3902 Clare Goodwin	Introduction to Business FSTU3925 TBC 4	
<b>COMMUNICATIONS</b>	Identity & Communication FSTU3926 Anne Kayes	Sociology FSTU3927 Lindy Carter	Digital World (CCMA L4) or other COMM4435 Mark Ingram	
<b>NZDE</b>	FSTU3911 Science Maths Sue Tulett			

<b>WAITAKERE</b>	Course 1	Course 2	Course 3	Course 4
<b>NURSING</b>	Identity & Communication FSTU3926 Trish Hanifin	Nursing Maths FSTU3913 Susie Powell	Bioscience FSTU3921 Saleshni Nand	Pathway Project FSTU3902 Saleshni Nand
<b>SOCIAL DEVELOPMENT</b>	Identity and Communications FSTU3926 Trish Hanifin	Cultures in Aotearoa NZ FSTU3924 Avian McManus	Sociology FSTU3927 Karen Petana-loka	Maths with Numeracy FSTU3910 Susie Powell



# NZ CERTIFICATE IN STUDY AND CAREER PREPARATION, LEVEL 3

## COURSE DESCRIPTORS

SEMESTER ONE 2017

Version 25/11/16

Code	Course Name		Pathways	Learning Outcomes	Topics covered
FSTU 3931	ART & DESIGN 2D	Compulsory	Art & Design	Students will develop 2 Dimensional Art & Design skills and techniques necessary for further study within a creative pathway.	<ol style="list-style-type: none"> <li>1. 2D Visual Skills &amp; Techniques (drawing, graphics, photography, illustration, cartoon, etc)</li> <li>2. Storyboarding</li> <li>3. Proportion and Scale</li> <li>4. 2D Research</li> <li>5. 2D Conceptual Skills</li> <li>6. 2D Art &amp; Design Principles</li> <li>7. 2D Art &amp; Design Methods and Practices</li> <li>8. 2D Materials &amp; Mediums</li> <li>9. Presentation/Communication</li> <li>10. Exhibition</li> </ol>
FSTU 3932	ART & DESIGN 3D	Compulsory	Art & Design	Students will develop 3 Dimensional Art & Design skills and techniques necessary for further study within a creative pathway.	<ol style="list-style-type: none"> <li>1. 3D Visual Skills &amp; Techniques (paper mâché, slice form, sculpture, etc)</li> <li>2. Model Making</li> <li>3. Proportion and Scale (Basic ergonomics)</li> <li>4. 3D Research</li> <li>5. 3D Conceptual Skills</li> <li>6. 3D Art &amp; Design Principles</li> <li>7. 3D Art &amp; Design Methods and Practices</li> <li>8. 3D Materials &amp; Mediums</li> <li>9. Presentation/Communication</li> <li>10. Exhibition</li> </ol>
FSTU 3921	BIOSCIENCE	Compulsory	Nursing Health & NatSci Sport	To develop students' knowledge of biological processes and concepts, and their interaction with each other and the environment.	<ol style="list-style-type: none"> <li>1. Biochemistry</li> <li>2. Cell Biology</li> <li>3. Anatomy and Physiology A (Human/Health focus)</li> <li>4. Anatomy and Physiology B (Animal/Environment focus)</li> <li>5. Genetics (Nursing only)</li> <li>6. Ecology and the Environment (HNS only)</li> </ol>
FSTU 3930	CHILDREN'S LITERATURE	Elective	Education	This course will enable students to explore a wide variety of texts and respond to them in critical and creative ways.	<ol style="list-style-type: none"> <li>1. Nursery rhymes, oral and interactive verse</li> <li>2. Traditional and contemporary stories</li> <li>3. Poetry</li> </ol>

FSTU 3924	CULTURES IN AOTEAROA	Elective	Compulsory for Social Development  Elective for Education Health/Nat Science Business Communications Sport	This course will assist students in developing understandings of biculturalism and cross-culturalism in Aotearoa and enable them to develop effective ways of communicating this knowledge.	<ol style="list-style-type: none"> <li>1. Biculturalism</li> <li>2. Cross-culturalism</li> <li>3. Maori cultural values</li> <li>4. Historical and contemporary influences and cultural identity</li> <li>5. Communication through different media</li> </ol>
COMM 4435	DIGITAL WORLD	Compulsory	Communications	To develop an understanding of how contemporary media forms and practices influence communication.	<p><i>May include but are not limited to:</i></p> <ol style="list-style-type: none"> <li>1. Digital news environment</li> <li>2. Participatory culture</li> <li>3. Public sphere</li> <li>4. Remediation</li> <li>5. Creativity and collaboration</li> <li>6. Global culture and media</li> <li>7. Citizenship and democracy</li> <li>8. Participatory culture</li> <li>9. Computer mediated communication</li> <li>10. Performance and the digital technology</li> <li>11. Digital Divide</li> <li>12. Privacy and surveillance</li> <li>13. Information society</li> <li>14. Data vs information</li> <li>15. Application of digital media and communication tools</li> <li>16. Convergence</li> <li>17. Presentation techniques</li> <li>18. Selected elementary media theories</li> <li>19. Social software such as wikis and blogs</li> <li>20. Social networks</li> <li>21. Desk top publishing</li> </ol>
FSTU 2190	FOUNDATION MATHS	Elective	Social Development Education Health & Natural Sciences Business Communications Sport	This course is designed to meet the student at their current math level and develop confidence and understanding in the use and communication of mathematics in a variety of contexts. This includes everyday tasks and workplace contexts. It will establish and extend their foundational concepts of number and measurement needed for further learning.	<ol style="list-style-type: none"> <li>1. Number Sense</li> <li>2. Fractions and Decimals</li> <li>3. Measurement</li> </ol>

FSTU 3926	IDENTITY AND COMMUNICATION	Compulsory	All pathways, except Engineering	Students will develop a confident learner identity and the skills necessary for further academic study in their chosen pathway.	<ol style="list-style-type: none"> <li>1. Whakawhanaungatanga</li> <li>2. Successful learning approaches</li> <li>3. Time management</li> <li>4. Reading strategies</li> <li>5. Career research</li> <li>6. Reflective writing</li> <li>7. Communication skills</li> </ol>
FSTU 3912	INTRODUCTION TO ALGEBRA	Elective	Engineering	To develop students' understanding of applying algebraic skills and algebraic thinking in a variety of representations and for them to become confident applying algebraic skills in several contexts relevant to pathway.	<ol style="list-style-type: none"> <li>1. Number and Algebra</li> <li>2. Patterns, Tables and Graphs</li> </ol>
FSTU 3925	INTRODUCTION TO BUSINESS	Compulsory	Business	This course will introduce students to basic business processes and practices, develop effective communication skills relevant to a business setting and prepare students for future study	<ol style="list-style-type: none"> <li>1. Business terminology and processes</li> <li>2. Sustainability and ethics</li> <li>3. Inspiring entrepreneurs</li> </ol>
FSTU 3914	MATHS ALGEBRA	Elective	Engineering	This course aims to develop students' understanding of algebraic and trigonometric representations and thinking as a preparation for the levels of mathematics required by the destination pathway.	<p>May include but not be limited to Algebra and Trigonometry.</p> <p><i>Algebraic concepts and skills:</i></p> <ol style="list-style-type: none"> <li>1. Substitution and manipulation of expressions with indices</li> <li>2. Transposing formulae</li> <li>3. Non-linear patterns and graphs</li> <li>4. Linear and quadratic patterns</li> <li>5. Cubic and hyperbolic functions and link with their graphs</li> <li>6. Linear equations and inequations</li> </ol> <p><i>Trigonometry:</i></p> <ol style="list-style-type: none"> <li>7. Apply trigonometric relationships in 2 and 3 dimensions</li> <li>8. Link simple trigonometric functions with their graphs</li> <li>9. Find areas of triangles</li> <li>10. Apply sine and cosine rules</li> </ol>

FSTU 3910	MATHS WITH NUMERACY	Elective	Social Development Education Health & Natural Sciences Business Communications Sport	This course is designed to develop students' confidence in thinking mathematically and to communicate mathematical principles in order to solve problems in a variety of contexts, including those of everyday life and the workplace, using a calculator where appropriate.	<ol style="list-style-type: none"> <li>1. Numerical problems in context, using calculators where appropriate</li> <li>2. Proportional reasoning</li> <li>3. Use measurement problems in context</li> <li>4. Interpret data and reason statistically</li> <li>5. Understand financial literacy</li> </ol>
FSTU 3913	NURSING MATHS	Elective	Nursing	This course is designed to extend students' confidence and understanding of mathematics used in nursing contexts and to use mathematical thinking without a calculator in the solving and communication of contextualised problems.	<ol style="list-style-type: none"> <li>1. Number Sense</li> <li>2. Fractions and Decimals</li> <li>3. Measurement</li> <li>4. Drug Calculations and Case Studies</li> </ol>
FSTU 3902	PATHWAY PROJECT	Elective	Nursing Health/NatSci Business Engineering Sport	This course will enable students to apply and communicate knowledge and skills obtained in their other courses to critically respond to pathway focussed projects formulated from case studies.	<ol style="list-style-type: none"> <li>1. Three projects. The projects will encompass specific topics taught in the other three courses in the pathway and will be determined in consultation and collaboration with those delivering those courses.</li> <li>2. Embedded literacy and numeracy.</li> </ol>
FSTU 3922	PHYSICS	Compulsory	Engineering	This course introduces students to key concepts from Physics and teaches them how to solve real-world problems and how to communicate using discipline-specific language.	<p>May include but not be limited to:</p> <ol style="list-style-type: none"> <li>1. Forces</li> <li>2. Energy</li> <li>3. Motion</li> <li>4. Matter</li> <li>5. Thermodynamics</li> <li>6. Electricity</li> <li>7. Electrostatics</li> <li>8. Waves</li> <li>9. Light</li> <li>10. Radioactivity</li> <li>11. Magnetism.</li> </ol>
FSTU 3928	PSYCHOLOGY		Compulsory for Education Elective for Social Development	This course will enable students to identify, apply and communicate psychological concepts and skills and critically respond in pathway-focussed projects.	<ol style="list-style-type: none"> <li>1. Early development</li> <li>2. Using psychological theories and models</li> <li>3. Investigative project</li> </ol>

FSTU 3911	SCIENCE MATHS	Elective	Engineering	This course aims to extend students' confidence and understanding of Algebra, Trigonometry and Calculus, using the mathematical skills learnt to solve complex problems in a variety of applied contexts relevant to students' destination pathways	May include but not be limited to: Algebra, Trigonometry, Calculus <i>Algebra</i> 1. Using indices and logarithms and applying these to solving equations and contextual problems <i>Trigonometry</i> 2. Understanding of trigonometric ratios and their graphs, and applying these to solve trigonometric equations 3. Exploring angle measures, including radians, and using them to solve contextual problems; 4. Manipulating simple trigonometric identities 5. Exploring graphical representations of a variety of functions connecting the graphs and the structure of the function <i>Calculus</i> 6. Developing concepts of limits, derivatives, anti-derivatives 7. Applying calculus techniques to practical situations, e.g. rates of change, graphical features, areas under a curve and kinematics
FSTU 3927	SOCIOLOGY	Compulsory	Social Development Communications	Students will gain an understanding of the impact of societal structures and how individuals and communities respond to them.	1. Critical inquiry and critical thinking 2. Civic participation 3. Community action 4. Ethical and social responsibility in a diverse world 5. Contemporary social issues (e.g. poverty, inequality, homelessness, climate change) 6. Academic skills
MAOR 3999	TOI MAORI	Compulsory	Art & Design	Students will broaden their knowledge of Toi Maori (Maori Art) through the mediums of Whakairo (Carving), Raranga (Weaving), Ta Moko (Tattooing), and Kowhaiwhai (Painted scrolls).	1. Kowhaiwhai (painted scrolls) 2. Taa Moko (tattoo) 3. Whakairo (Carving) 4. Raranga (Weaving)