

# CURRICULUM TEACHING AND LEARNING, M.ED.

## Degree Requirements

The M.Ed. in Curriculum, Teaching and Learning has a thesis-based route and a course-based route with an oral defense. The M.Ed. course-based route at the University of Manitoba is typically a terminal degree. That is, it is insufficient, in number and of itself, as evidence of research capacity for admission into the Ph.D. in Education program at the University of Manitoba.

The following program requirements apply to all concentrations in the Department of Curriculum, Teaching and Learning. Specific concentration requirements are listed under each concentration below.

Not all courses are offered every year. Although many courses are offered yearly, most courses are offered in the evening and those wishing to study full-time should consult with the department head.

**Expected Time to Graduate:** full-time: 2 - 3 years; part-time: 4 - 5 years.

### Program by Coursework and Thesis

A minimum of 18 credit hours of coursework. At least 12 credit hours must be at the 7000 level or equivalent. The remaining 6 credit hours may be at the 5000 level or above in the Faculty of Education, and/or at the 3000 level or above in other faculties.

EDUA 7830 or its equivalent, is a requirement of all M.Ed. programs in the Faculty of Education. In addition, thesis students must take 3 credit hours of research methods at the 7000 level in Education. In special circumstances research courses at the 3000 level or above in other faculties may be approved as an appropriate alternative to this requirement.

### Program by Coursework and Comprehensive Option (either Examination or Project) (Course-based)

A minimum of 30 credit hours of coursework. At least 18 credit hours must be at the 7000 level. The remaining 12 credit hours may be at the 5000 level or above in the Faculty of Education, and/or at the 3000 level or above in other faculties.

EDUA 7830 or its equivalent, is a requirement of all M.Ed. programs in the Faculty of Education.

In addition, all students must complete 9 credit hours of core courses and 18 credit hours of concentration.

Course-based route students have the option of including a capstone course (EDUB 7540) as part of their 30 credit hours of required coursework. Normally, the capstone course is taken by students as preparation for the culminating activity. Students taking this course can expect to complete significant work towards fulfilling the comprehensive examination requirement.

### ACE # Arts, Community and Education Concentration

The Master of Education in Arts, Community, and Education follows a social and environmental justice agenda, where students will explore contemporary theories and practices in arts education, such as critical and aesthetic philosophies, arts-based research, community arts and the role of cultural institutions in shaping society. Students will

consider art education as a social, cultural and historical process as individual and community transformation, whether the student chooses to work in formal or informal art education settings.

### Thesis Based

Course	Title	Hours
<b>Years 1-3</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
EDUB 7XXX	Core Courses - 6 credit hours:	6
EDUB 7000	Contemporary Perspectives and Practices in Arts Education	
EDUB 7030	The Arts in Education	
EDUA/B XXXX	Concentration Courses <sup>1</sup>	6
EDUA 7830	Engaging with Research in Education <sup>2</sup>	3
EDUA/B XXXX	Research Methods Course <sup>3</sup>	3
<b>Hours</b>		<b>18</b>
<b>Years 2-5</b>		
GRAD 7000	Master's Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>18</b>

<sup>1</sup> A total of 6 credit hours of coursework at the 7000 level deemed to be relevant to the concentration as determined and approved by the advisor and the department head.

<sup>2</sup> EDUA 7830 or its equivalent, is a pre-requisite to all EDUA and EDUB research methods courses.

<sup>3</sup> A 7000 level, 3-credit hour research methods course in the Faculty of Education or 3000 level or above in other faculties.

### Course Based

Course	Title	Hours
<b>Years 1-3</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
EDUB 7XXX	Core Courses - 6 credit hours:	6
EDUB 7000	Contemporary Perspectives and Practices in Arts Education	
EDUB 7030	The Arts in Education	
EDUA/B XXXX	Concentration Courses <sup>1</sup>	21
EDUA 7830	Engaging with Research in Education <sup>2</sup>	3
<b>Hours</b>		<b>30</b>
<b>Years 2-5</b>		
GRAD 7000	Master's Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>30</b>

<sup>1</sup> A total of 21 credit hours of coursework at the 5000 or 7000 level deemed to be relevant to the concentration as approved by the advisor and the department head.

<sup>2</sup> EDUA 7830 or its equivalent, is a pre-requisite to all EDUA and EDUB research methods courses.

## Critical Perspectives in Curriculum, Teaching and Pedagogy Concentration

Critical Perspectives in Curriculum, Teaching and Pedagogy focuses on these core questions: What is the purpose of education? What do we mean by curriculum, teaching and pedagogy and who decides? Moreover, we consider how ideological and political discourses influence our understandings of curriculum, teaching and pedagogy. Understandings of curriculum expand beyond provincial curriculum documents and instructional resources, to include the ways in which curriculum is imagined, intellectualized, and enacted. This concentration will explore scholarship and research in curriculum theory, curriculum and pedagogical discourses, teaching and pedagogy, teacher identity, teacher education, and educational leadership. While grounded in curriculum theory, students can explore specific disciplines (e.g. social studies) and contexts (e.g. teachers, administrators, and specialists).

### Thesis Based

Course	Title	Hours
<b>Years 1-3</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
EDUB 7XXX	Core Courses - 6 credit hours:	6
EDUB 7542	Contemporary Approaches to Curriculum Theorizing	
EDUB 7550	Curriculum: Historical Perspectives and Contemporary Implications	
EDUA/B XXXX	Concentration Courses <sup>1</sup>	6
EDUA/B XXXX	Elective Courses <sup>2</sup>	
EDUA 7830	Engaging with Research in Education <sup>3</sup>	3
EDUA/B XXXX	Research Methods Course <sup>4</sup>	3
<b>Hours</b>		<b>18</b>
<b>Years 2-5</b>		
GRAD 7000	Master's Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>18</b>

<sup>1</sup> A total of 6 credit hours of coursework at the 7000 level deemed to be relevant to the concentration as determined and approved by the advisor and the department head.

<sup>2</sup> In addition, up to 6 more credit hours of coursework may be selected from any Faculty of Education courses at the 5000 or 7000 level.

<sup>3</sup> EDUA 7830 or its equivalent, is a pre-requisite to all EDUA and EDUB research methods courses.

<sup>4</sup> A 7000 level, 3-credit hour research methods course in the Faculty of Education or 3000 level or above in other faculties.

### Course Based

Course	Title	Hours
<b>Years 1-3</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
EDUB 7XXX	Core Courses - 6 credit hours:	6
EDUB 7542	Contemporary Approaches to Curriculum Theorizing	
EDUB 7550	Curriculum: Historical Perspectives and Contemporary Implications	
EDUA/B XXXX	Concentration Courses <sup>1</sup>	6

EDUA/B XXXX	Elective Courses <sup>2</sup>	15
EDUA 7830	Engaging with Research in Education <sup>3</sup>	3
<b>Hours</b>		<b>30</b>
<b>Years 2-5</b>		
GRAD 7000	Master's Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>30</b>

<sup>1</sup> At least 6 credit hours of coursework at the 7000 level deemed to be relevant to the concentration as determined and approved by the advisor and the department head.

<sup>2</sup> Fifteen (15) credit hours of coursework at the 5000 level or above from the Faculty of Education. Three (3) of these credit hours may be from other faculties at the 5000 level or above.

<sup>3</sup> EDUA 7830 or its equivalent, is a pre-requisite to all EDUA and EDUB research methods courses.

## Indigenous (First Nations/Métis/Inuit) Perspectives in Curriculum, Teaching and Learning Concentration

Students in this concentration will study Indigenous (First Nations, Métis, and Inuit) ways of knowing and knowledge across curricular areas/disciplines. This concentration will offer students opportunities to explore Indigenous (First Nations, Métis, and Inuit) education as a field of study and practice, including decolonizing curriculum theory, curricula, and methodologies.

### Thesis Based

Course	Title	Hours
<b>Years 1-3</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
EDUB 7XXX	Core Courses - 6 credit hours:	6
EDUB 7900	Critical Examination of Reconciliation in and through Education	
EDUB 7930	First Nations, Metis, and Inuit Ways of Knowing in/for Curriculum, Teaching and Learning	
EDUA/B XXXX	Concentration Courses <sup>1</sup>	6
EDUA 7830	Engaging with Research in Education <sup>2</sup>	3
EDUA/B XXXX	Research Methods Course <sup>3</sup>	3
<b>Hours</b>		<b>18</b>
<b>Years 2-5</b>		
GRAD 7000	Master's Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>18</b>

<sup>1</sup> Six credit hours selected from:

- EDUB 7910 Seminar in Indigenous (First Nations/Métis/Inuit) Education (3)
- EDUB 7950 Indigenous Storytelling, Narrative and Storywork as Pedagogy (3)
- Any 7000-level course offered in the Department of Curriculum, Teaching and Learning deemed to be relevant to the concentration as determined and approved by the advisor and the department head.

<sup>2</sup> EDUA 7830 or its equivalent, is a pre-requisite to all EDUA and EDUB research methods courses.

<sup>3</sup> A 7000 level, 3-credit hour research methods course in the Faculty of Education or 3000 level or above in other faculties.

### Course Based

Course	Title	Hours
<b>Years 1-3</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
EDUB 7XXX	Core Courses - 9 credit hours:	9
EDUB 7900	Critical Examination of Reconciliation in and through Education	
EDUB 7930	First Nations, Metis, and Inuit Ways of Knowing in/for Curriculum, Teaching and Learning	
Any 7000 level 3 credit-hour course deemed to be relevant to the concentration and approved by both the advisor and the department head.		
EDUA/B XXXX	Concentration Courses <sup>1</sup>	18
EDUA/B XXXX	Research Methods Course <sup>2</sup>	3
<b>Hours</b>		<b>30</b>
<b>Years 2-5</b>		
GRAD 7000	Master's Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>30</b>

<sup>1</sup> A total of 18 credit hours of elective coursework from:

- EDUB 7910 Seminar in Indigenous (First Nations/Métis/Inuit) Education (3)
- EDUB 7950 Indigenous Storytelling, Narrative and Storywork as Pedagogy (3)
- 6 credit hours of 7000 level courses offered in the Department of Curriculum, Teaching and Learning
- 6 credit hours of 5000 or 7000 level courses offered in the Faculty of Education

<sup>2</sup> EDUA 7830 or its equivalent, is a pre-requisite to all EDUA and EDUB research methods courses.

### Language and Literacy Concentration

The Master of Education in Language and Literacy program is a broad specialty encompassing pre-school to post-secondary levels. The purpose of the program is to develop a theoretical background and promote skills that will enable students to conduct independent research. Language investigation may also include social, political and cultural issues.

Literacy educators are also interested in early language development, reading diagnosis and remediation, and the use of language to learn at all levels and in all content areas. Programs can be designed so that graduates can qualify for certification as Reading Clinicians.

Program Requirements are those listed above. Specific course requirements are as follows:

#### Thesis Based

Course	Title	Hours
<b>Years 1-3</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0

EDUB 7XXX Twelve (12) credit hours of concentration courses in Language and Literacy (at the 7000 level) in consultation with the advisor. These courses are normally selected from:

EDUB 7060	Seminar and Practicum in Clinical Diagnosis and Remediation	
EDUB 7070	Classical Research in Reading	
EDUB 7090	Seminar in Reading Processes	
EDUB 7100	Language and Literacy Curriculum Inquiry in the Early Years	
EDUB 7110	Research in Language and Literacy Development	
EDUB 7120	Curricular Issues in English Language Arts Education	
EDUB 7130	Becoming Writers: Power, Place and Pedagogy in Teaching Writing	
EDUB 7142	Topics in Curriculum, Teaching, and Learning	
EDUB 7150	Seminar in Reading and Response to Literature	
EDUB 7160	Language Teacher as Researcher	
EDUB 7180	Research in Written Composition	
EDUB 7190	Research in Language for Learning	
EDUB 7290	Curriculum Research in Early Years: Young Children and Social Semiotics	
EDUB 7530	Curriculum Development and Implementation in Language and Literacy	

or other 7000-level courses in Language and Literacy in consultation with the advisor and the department head.

EDUA 7830	Engaging with Research in Education <sup>1</sup>	3
EDUA/B XXXX	Research Methods Course <sup>2</sup>	3
<b>Hours</b>		<b>18</b>

#### Years 2-5

GRAD 7000	Master's Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>18</b>

<sup>1</sup> EDUA 7830 or its equivalent, is a pre-requisite to all EDUA and EDUB research methods courses.

<sup>2</sup> A 7000 level, 3-credit hour research methods course in the Faculty of Education or 3000 level or above in other faculties.

### Course Based

Course	Title	Hours
<b>Years 1-3</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
EDUB 7XXX	Fifteen (15) credit hours of concentration courses in Language and Literacy in consultation with the advisor (12 of which must be at the 7000 level). These courses are normally selected from:	15
EDUB 7060	Seminar and Practicum in Clinical Diagnosis and Remediation	
EDUB 7070	Classical Research in Reading	
EDUB 7090	Seminar in Reading Processes	

EDUB 7100	Language and Literacy Curriculum Inquiry in the Early Years	
EDUB 7110	Research in Language and Literacy Development	
EDUB 7120	Curricular Issues in English Language Arts Education	
EDUB 7130	Becoming Writers: Power, Place and Pedagogy in Teaching Writing	
EDUB 7142	Topics in Curriculum, Teaching, and Learning	
EDUB 7150	Seminar in Reading and Response to Literature	
EDUB 7160	Language Teacher as Researcher	
EDUB 7180	Research in Written Composition	
EDUB 7190	Research in Language for Learning	
EDUB 7290	Curriculum Research in Early Years: Young Children and Social Semiotics	
EDUB 7530	Curriculum Development and Implementation in Language and Literacy	
or other courses in Language and Literacy approved by the advisor and the department head.		
In addition, 12 credit hours of selected electives in consultation with the advisor.		12
EDUA 7830	Engaging with Research in Education <sup>1</sup>	3
<b>Hours</b>		<b>30</b>
<b>Years 2-5</b>		
GRAD 7010	Comprehensive Examination	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>30</b>

<sup>1</sup> EDUA 7830 or its equivalent, is a pre-requisite to all EDUA and EDUB research methods courses.

## Second Language Education Concentration

The Master of Education in Second Language Education (SLE) concentration addresses research, language learning, and pedagogical issues in teaching English as a second language and teaching English as a foreign language, in pre-Kindergarten to Grade 12 through adult teaching contexts. The MEd in SLE also offers students the opportunity to explore the theoretical foundations of curriculum in education in a cohort of approximately 30 graduate students. Our students have taught in a wide variety of international, national, and local contexts, and the MEd in SLE program is designed to provide challenging and stimulating frames of reference for SLE practice.

With the support of a program advisor (faculty member), graduate students in SLE will plan and complete a program of coursework in SLE, research methodologies, and curriculum, capped by a thesis or comprehensive examination option. The thesis or comprehensive option is intended to address the unique goals and interests of each graduate student.

Program Requirements are those listed above. Specific course requirements are as follows:

### Thesis Based

Course	Title	Hours
<b>Years 1-3</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
EDUB 7XXX	Core Courses	12
EDUB 7210	Seminar in E.S.L. Theory and Practice	
EDUB 7212	Critical Applied Linguistics in a Global Context	
EDUB 7220	Research Issues and Application in TESL (Teaching English as a Second Language)	
EDUB 7580	Social, Cultural, and Political Theories in Second Language Acquisition	
In addition, up to 6 more credit hours of coursework may be selected from any Faculty of Education 5000 or 7000 level courses (except EDUB 5580). Advisors may decide that EDUB 5580 is a necessary component for the programs of students who have minimal second/foreign language teaching experience or for other reasons. This course will be added to a student's program as an auxiliary course above and beyond the minimum 18 credit hours.		
EDUA 7830	Engaging with Research in Education <sup>1</sup>	3
EDUA/B XXXX	Research Methods Course <sup>2</sup>	3
<b>Hours</b>		<b>18</b>
<b>Years 2-5</b>		
GRAD 7000	Master's Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>18</b>

- <sup>1</sup> EDUA 7830 or its equivalent, is a pre-requisite to all EDUA and EDUB research methods courses.
- <sup>2</sup> A 7000 level, 3-credit hour research methods course in the Faculty of Education or 3000 level or above in other faculties.

### Course Based

Course	Title	Hours
<b>Years 1-3</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
EDUB 7XXX	Core Courses	12
EDUB 7210	Seminar in E.S.L. Theory and Practice	
EDUB 7212	Critical Applied Linguistics in a Global Context	
EDUB 7220	Research Issues and Application in TESL (Teaching English as a Second Language)	
EDUB 7580	Social, Cultural, and Political Theories in Second Language Acquisition	
EDUA/B XXXX	Concentration Courses (see below)	15
EDUA 7830	Engaging with Research in Education <sup>1</sup>	3
<b>Hours</b>		<b>30</b>
<b>Years 2-5</b>		
GRAD 7010	Comprehensive Examination	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>30</b>

<sup>1</sup> EDUA 7830 or its equivalent, is a pre-requisite to all EDUA and EDUB research methods courses.

### Concentration Courses

In consultation with the advisor, 15 credit hours of coursework with a minimum of 9 credit hours at the 7000 level from the following course list, or other courses approved by the advisor and the department head (except EDUB 5580). Advisors may decide that EDUB 5580 is a necessary component for the programs of students who have minimal second/foreign language teaching experience or for other reasons. This course will be added to a student's program as an auxiliary course above and beyond the minimum 30 credit hours.

Course	Title	Hours
EDUA 7270	Seminar in Cross-Cultural Education 1	3
EDUA 7280	Seminar in Cross-Cultural Education 2	3
EDUA 7420	Program Planning in Adult Education	3
EDUB 5510	ESL Materials Development and Practicum	3
EDUB 7070	Classical Research in Reading	3
EDUB 7180	Research in Written Composition	3
EDUB 7214		
EDUB 7330	Inquiry in Curriculum and Instruction	3
EDUB 7420	Study of Teaching	3
EDUB 7540	Final Seminar in Curriculum, Teaching and Learning	3
EDUB 7550	Curriculum: Historical Perspectives and Contemporary Implications	3
EDUB 7560	Theory and Practice of Curriculum Design and Development	3

### Studies in Contemplative, Holistic, and Integrative Education Concentration

Contemplative, Holistic, and Integrative Education takes its starting point in a view of humans that considers and integrates all aspects of what it means to be human, including but not limited to the physical, emotional, cognitive, social, ecological, ethical, creative, spiritual, and contemplative aspects. Contemplative, Holistic, and Integrative Education is about educating for a flourishing life. To this end, first, contemplative, Holistic, and Integrative Education draws on the wisdoms of different cultural traditions, multidisciplinary perspectives, and integrative practices from different times and places to educate for living in current times; and, second, Contemplative, Holistic, and Integrative Education integrates studies of the whole person, curriculum, teaching, and learning by collaboratively exploring holistic, experiential, and transformative educational approaches for a flourishing life in a flourishing society.

### Thesis Based

Course	Title	Hours
<b>Years 1-3</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
EDUB 7XXX	Core Courses - 12 credit hours selected from the following:	12
EDUB 7700	Contemplative, Holistic, and Integrative Education: The Self	

EDUB 7710	Contemplative, Holistic, and Integrative Education: The Social, Cultural, and Ecological	
EDUB 7720	Approaches to Contemplative, Holistic, and Integrative Curriculum and Pedagogy	
EDUB 7730	Being an Educator in Contemplative, Holistic, and Integrative Education	
EDUB 7740	Recent Topics in Research in Contemplative, Holistic, and Integrative Education	
EDUA 7830	Engaging with Research in Education <sup>1</sup>	3
EDUA/B XXXX	Research Methods Course <sup>2</sup>	3
<b>Hours</b>		<b>18</b>

### Years 2-5

GRAD 7000	Master's Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>18</b>

<sup>1</sup> EDUA 7830 or its equivalent, is a pre-requisite to all EDUA and EDUB research methods courses.

<sup>2</sup> A 7000 level, 3-credit hour research methods course in the Faculty of Education or 3000 level or above in other faculties.

### Course Based

Course	Title	Hours
<b>Years 1-3</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
EDUB 7XXX	Core Courses - 12 credit hours from the following:	12
EDUB 7700	Contemplative, Holistic, and Integrative Education: The Self	
EDUB 7710	Contemplative, Holistic, and Integrative Education: The Social, Cultural, and Ecological	
EDUB 7720	Approaches to Contemplative, Holistic, and Integrative Curriculum and Pedagogy	
EDUB 7730	Being an Educator in Contemplative, Holistic, and Integrative Education	
EDUB 7740	Recent Topics in Research in Contemplative, Holistic, and Integrative Education	
EDUA/B XXXX	Concentration Courses <sup>1</sup>	6
EDUA/B XXXX	Elective Courses <sup>2</sup>	9
EDUA 7830	Engaging with Research in Education <sup>3</sup>	3
<b>Hours</b>		<b>30</b>
<b>Years 2-5</b>		
GRAD 7000	Master's Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>30</b>



- <sup>1</sup> In consultation with the advisor, 6 credit hours of coursework selected from:
- EDUB 7740 Recent Topics in Research in Contemplative, Holistic, and Integrative Education (3)
  - EDUB 7750 Seminar in Studies in Contemplative, Holistic, and Integrative Education (3)
  - Any 7000-level course deemed relevant to the concentration as determined and approved by the advisor and the department head.
- <sup>2</sup> In consultation with the advisor, 9 credit hours of elective coursework selected from 5000 and 7000 level courses offered in the Faculty of Education.
- <sup>3</sup> EDUA 7830 or its equivalent, is a pre-requisite to all EDUA and EDUB research methods courses.

## Studies in Mathematics Education and Science Education Concentration (Studies in MESE)

Students will explore theories, research, policies and practices in mathematics education and science education as well as various intersections between the two disciplines. Mathematics education and/or science education will be examined in K-12 and post-secondary settings as well as in settings beyond schools. Throughout the program, students will consider the social, cultural, ethical, human rights and sustainability dimensions of mathematics education and/or science education.

### Thesis Based

Course	Title	Hours
<b>Years 1-3</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
EDUB 7XXX	Core Course - 3 credit hours:	3
EDUB 7492	Recent Advances in Mathematics Education and Science Education	
EDUA/B XXXX	Concentration Courses <sup>1</sup>	6
EDUA/B XXXX	Elective Courses <sup>2</sup>	3
EDUA 7830	Engaging with Research in Education <sup>3</sup>	3
EDUA/B XXXX	Research Methods Course <sup>4</sup>	3
<b>Hours</b>		<b>18</b>
<b>Years 2-5</b>		
GRAD 7000	Master's Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>18</b>

- <sup>1</sup> One 3-credit-hour course at the 7000 level and one 3-credit-hour course at the 5000 level or above. Both courses must be deemed relevant to the concentration as determined and be approved by the advisor and the department head.
- <sup>2</sup> Three (3) credit hours of coursework at 5000 level or above from the Faculty of Education. In addition, up to 6 more credit hours of coursework may be selected at the 5000 level or above from the Faculty of Education.
- <sup>3</sup> EDUA 7830 or its equivalent, is a pre-requisite to all EDUA and EDUB research methods courses.
- <sup>4</sup> A 7000 level, 3-credit hour research methods course in the Faculty of Education or 3000 level or above in other faculties.

### Course Based

Course	Title	Hours
<b>Years 1-3</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
EDUB 7XXX	Core Course - 3 credit hours:	3
EDUB 7492	Recent Advances in Mathematics Education and Science Education	
EDUA/B XXXX	Concentration Courses <sup>1</sup>	12
EDUA/B XXXX	Elective Courses <sup>2</sup>	12
EDUA 7830	Engaging with Research in Education <sup>3</sup>	3
<b>Hours</b>		<b>30</b>
<b>Years 2-5</b>		
GRAD 7000	Master's Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>30</b>

- <sup>1</sup> A total of 12 credit hours of coursework of which 6 credit hours must at the 7000 level and 6 credit hours must be at the 5000 level or above. All courses must be approved by the advisor and the department head.
- <sup>2</sup> Twelve (12) credit hours of coursework as electives. Six (6) credit hours must be from courses offered in the Department of Curriculum, Teaching and Learning of which 3 credit hours are at 7000 level and 3 credit hours at the 5000 level or above. In addition, 3 credit hours must be from the courses offered in the Faculty of Education at the 7000 level and 3 credit hours from courses offered in the Faculty of Education (5000 level or above) or another faculty (3000 level or above).
- <sup>3</sup> EDUA 7830 or its equivalent, is a pre-requisite to all EDUA and EDUB research methods courses.