

Memo to: All W2008 Students registered in Dept. of Statistical & Actuarial Science Modules

From : Mary Millard

Re : **Transition Provisions for Students that entered Actuarial Science, Statistics and Financial Modeling Modules prior to 2009**

Date : June 11th, 2009

As some of you may know, the Department of Statistical and Actuarial Science recently made changes to their modules that are being implemented this fall. The *official online version* of the W2009 Academic Calendar now includes our new modular programs and resultant course changes (including course additions, deletions and course content changes) that were recently approved.

While we make the transition to the new modules over the next few years, we will have students registered in both our old and new modules. Planned course offerings for W2009 and W2010 have and will consider these transition needs. However, given the transition and the recent updates made to the official online calendar, we are going to have more questions than usual from students registered in our programs for W2009. This memo is being sent to you to help address some of the questions that may arise. Here is some key information that will help you with your upcoming online course registration:

- If you are *continuing* in an Actuarial Science, Statistics or Financial Modeling Module this year (W2009), you may complete your modular requirements as specified in the W2008 Academic Calendar. If you fall into this category, you will be considered a student that is continuing in one of our old modules.
- Given changes in our course offerings, students *continuing in our old modules* will be allowed to make course substitutions for modular courses that are now no longer offered or that have recently been renumbered. **A summary of these course substitutions is included in Appendix A** attached(page3).
- **Appendix B** attached includes **updated versions of the Actuarial Science and Statistics course conversion charts**. These will be of value to those of you that were/are impacted by the transition made from the three digit to 4 digit course numbering systems a year ago!
- **Appendix C** attached includes **one page modular summaries for students continuing in our old modules**. Please review the summary for your respective module as these summaries includes all requirements to complete your degree and the modular course substitutions, as well as recommended scheduling by term and year for your modular courses. **Appendix C includes one page modular summaries(“old programs” as per W2008 calendar) for;**
 - **Actuarial Science Honors Specialization** (see page 7)
 - **Actuarial Science Major**(see page 8)
 - **Financial Modeling Honors Specialization**(see page 9)
 - **Financial Modeling Major**(see page 10)
 - **Statistical Science Honors Specialization** (see page 11)
 - **Statistical Science Major** (see page 12)

- If you look at the W2009 online calendar, you may have some concern with course pre-requisites as they reflect new course numberings and new modular courses. We wanted to let you know that changes are being made to the online course pre-requisites to help facilitate online registration for students that are continuing in our old programs.
 - These changes should be completed prior to the June 15th commencement of online registration, and you should be able to register online without problems. If you have a problem registering online for a modular course that you think you should be able to take (as per the old or W2008 calendar), please e-mail me at mmillard@stats.uwo.ca.
 - Affected courses include SS3520A/B, SS3657A/B, SS3859A/B, SS4826A/B, SS4930A/B and AS4426F/G
- If you are continuing in one our modules this upcoming school year (W2009) but have not yet completed either one or more of Calculus 2502a, Calculus 2503b, Stats 2657a, or Stats 2858b, it may be in your best interests for you to complete the new module. If you fall into this category, please email me at mmillard@stats.uwo.ca from your UWO account and I will review your situation with you.

Hopefully this information helps you with your upcoming registration. Please contact one of our academic counselors if you have any further questions. Our counseling hours are posted at <http://www.stats.uwo.ca/ugstudies/default.htm>

Regards,

Mary Millard, MSc, F.C.I.A., F.S.A
Lecturer and Academic Counsellor
Department of Statistical and Actuarial Sciences

APPENDIX A- Course Substitutions

For students *continuing* in our old modular programs in W2009(entered W2008 or earlier):

<u>Required Modular Course (as per W2008 Calendar)</u>	<u>Course Substitution</u>
AS2421a	SS1021a/b
AS3427a/b	AS2427a/b(offered both terms in W2009 only)
AS4424a/b	AS3424a/b
AS4422a/b	AS3431a/b
SS2657a/b	SS2857a/b
SS3652a/b	SS4930a/b(note: offered inW2009 only)
SS3846a/b	SS4846a/b(note: offered in W2009, <u>may</u> be offered in W2010
SS3553a/b	SS4553a/b(note: not offered in W2009 but will be in W2010)
SS3861a/b	SS4861a/b
SS4520a/b	SS3520a/b

APPENDIX B-Course Conversion Chart

PROPOSED VERSION **

Course Conversion Chart

Actuarial Science

Main Campus

Old course #	4 digit Course #s (W2008)	W2009 Changes
153	2053	
221a	2421A/B	Replaced with A1021
223a	2553A	
225a/b	2555A/B	
327a/b	3427A/B	Replaced with 2427A/B
329b	3429B	
422a/b	4422A/B	Replaced with 3431 A/B
423a/b	4823A/B	
424a/b	4424A/B	Replaced with 3424 A/B
426F/G	4426F/G	
427a/b	4427A/B	DISCONTINUED
442a/b	4824A/B	
496a/b	4950A/B	
497F/G	4960 A/B	

** columns 1 &2 are as presented in the W2009 paper calendar

APPENDIX B-Course Conversion Chart(continued)

(ii) Proposed Version

Course Conversion Chart

Statistical Sciences

Main Campus

Old course #s	4 digit Course #s(W2008)	W2009 Changes
023a/b	1023A/B	
024a/b	1024A/B	
135	2035	
137a/b	2037A/B	
222a/b	2122A/B	
241a/b	2141A/B	
243a/b	2143A/B	
257a	2657A	Replaced with 2857A
259a/b	2864A/B	
260b	2858B	
314a/b	3814A/B	Replaced with 3850F/G(not offered in W2009, will be in 2010)
316a/b	3816A/B	DISCONTINUED
325a/b	3652A/B	DISCONTINUED(replaced with 4930 for W2009 <u>only</u>)
346a/b	3846A/B	Replaced with 4846A/B
353F/G	3853F/G	Replaced with 4853F/G(not offered in W2009)
357a	3657A	
358b	3858B	
359a/b	3859A/B	
361a/b	3861A/B	Replace with 4861A/B
420a/b	4520A/B	Replace with 3520A/B
421F/G	4521F/G	
437a/b	4737A/B	DISCONTINUED
446a	4858A	DISCONTINUED
448a/b	4848A/B	DISCONTINUED
450a/b	4657A/B	DISCONTINUED
452a/b	4652A/B	DISCONTINUED
455a/b	4859A/B	DISCONTINUED
458F/G	4850F/G	
459a/b	4864A/B	DISCONTINUED
498a/b	4930A/B	
499F/G	4940F/G	

** columns 1 &2 are as presented in the W2009 paper calendar

APPENDIX C - OLD PROGRAM MODULAR SUMMARIES

For students who entered the module PRIOR to W2009

Actuarial Science Honors Specialization (page 7)

Actuarial Science Major(page 8)

Financial Modeling Honors Specialization(page 9)

Financial Modeling Major(page 10)

Statistical Science Honors Specialization(page 11)

Statistical Science Major (page 12)

For students who entered the program PRIOR to W2009(see 2008 Academic Calendar for complete info).

Year 1 (5.0 Courses)	Graduation Requirements								
Calculus 1000 a/b (050a/b) or Cal 1100a/b Calculus 1501 a/b (051a/b) or Cal 1301b (081b) with a mark of at least 85% Linear Algebra 1600a/b (040a/b) Stats 1023a/b (023a/b) 1.0 other principal course 2.0 options NOTE: at least 1.0 course must be chosen from at least two of Categories A, B, and C as listed on page 23 of the W2008 Academic Calendar	Breadth Requirement: <ul style="list-style-type: none"> At least 1.0 course from each of Category A, B, and C as listed on page 23 of the W2008 Academic Calendar Essay Requirement: <ul style="list-style-type: none"> 2.0 essay courses (1.0 must be senior level course) You can include any Actuarial Science or Statistics essay course taken towards this requirement. Senior Courses: <ul style="list-style-type: none"> 13.0 senior courses (numbered 2000-4999) Average Requirements: <ul style="list-style-type: none"> Minimum overall average of 65% on 20.0 courses Minimum cumulative modular average of 70% with no mark in any modular course less than 60% Passing grade in each option Minimum cumulative modular average of 60% in any additional Major or Minor module completed Residency Requirement: <ul style="list-style-type: none"> Majority of courses in module must be completed through UWO *NOTE: To graduate with a BSc, you must have a total of at least 11.0 SCIENCE courses								
Admission to Honors Specialization Module: Complete first year (5.0 courses) with no failures including: <ul style="list-style-type: none"> Minimum average of 70% on 3.0 principal courses with no mark less than 60% in any of the 3 principal courses: <ul style="list-style-type: none"> Cal 1000a/b (050a/b) or Cal 1100a/b (or 85% minimum requirement in Cal 1301b (081b)) Cal 1501b (051b) Stats 1023a/b (023a/b) Linear Algebra 1600a/b (040 a/b) 1.0 other principal course NOTE 1- Linear Algebra 1600a/b (040a/b) if not taken in 1 st year must be completed prior to the second term of second year NOTE 2- Stats 1023a/b if not taken in 1 st year must be completed prior to 3 rd yr NOTE 3- AM1413 may be substituted for Year 1 Calculus courses requirements NOTE 4 - AM1411a/b may be substituted for Linear Algebra 1600a/b									
MODULE (10.5 Courses)- see notes below(*) 3.5 courses: Actuarial Science 2421a/b* , 2553a, 2555a/b, 3427a/b* , 3429b, 4422a/b* , 4426F/G 4.5 courses: Statistical Sciences 2657a* , 2864a/b, 2858b, 3652a/b* , 3657a, 3858b, 3859a/b, 3861a/b* , 4520a/b* 1.0 courses: Calculus 2502a/b [@] , 2503a/b [@] 1.0 course in Actuarial Science at the 4000 level (Statistical Sciences 4521F/G may be substituted for 0.5 of this requirement) 0.5 course from: Actuarial Science 4424a/b* or 4824a/b	Department Recommendation for order in which modular courses should be taken: Second Year <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Cal 2402a[@]</td> <td style="width: 50%;">AM 2503b[@]</td> </tr> <tr> <td>AS 1021a/b*(for 2421a/b)</td> <td>AS 2553a</td> </tr> <tr> <td>Stats 2857a (for 2657a)</td> <td>Stats 2864a/b</td> </tr> <tr> <td>AS 2555a/b</td> <td>Stats 2858b</td> </tr> </table>	Cal 2402a [@]	AM 2503b [@]	AS 1021a/b*(for 2421a/b)	AS 2553a	Stats 2857a (for 2657a)	Stats 2864a/b	AS 2555a/b	Stats 2858b
Cal 2402a [@]	AM 2503b [@]								
AS 1021a/b*(for 2421a/b)	AS 2553a								
Stats 2857a (for 2657a)	Stats 2864a/b								
AS 2555a/b	Stats 2858b								
OPTIONS (4.5 Courses) Any additional Major or Minor module may be taken here. You must successfully complete this additional module with a minimum mark of 60%.	Third Year <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">AS2427a/b*(for 3427)</td> <td style="width: 50%;">AS3429b</td> </tr> <tr> <td>Stats 3657a</td> <td>Stats 3858b</td> </tr> <tr> <td>Stats 4930ab*(for 3652)</td> <td></td> </tr> <tr> <td>Stats 3859a/b</td> <td>Stats 4861a/b*(for 3861)</td> </tr> </table>	AS2427a/b*(for 3427)	AS3429b	Stats 3657a	Stats 3858b	Stats 4930ab*(for 3652)		Stats 3859a/b	Stats 4861a/b* (for 3861)
AS2427a/b*(for 3427)	AS3429b								
Stats 3657a	Stats 3858b								
Stats 4930ab*(for 3652)									
Stats 3859a/b	Stats 4861a/b* (for 3861)								
Progression Requirements <ul style="list-style-type: none"> Minimum cumulative modular average of 70% Minimum mark of 60% in each course of module Passing grade in each option 	Fourth Year AS3431a* (for 4422a/b) AS4426F/G Stats 3520a/b* (for 4520) AS3424a* (for 4424a) <u>or</u> AS4824a/b 1.0 AS course at 4000 level (SS4521F/G may be substituted for 0.5 of this requirement)								
Notes: * For Students <u>continuing</u> in the old modular programs in W2009: The following course substitutions need to be made; S4930a replaces SS3652a (W2009 only) AS2427a/b replaces AS3427a. SS4861b replaces SS3861b. AS3424a replaces AS4424a. AS3431a replaces AS4422a SS3520a replaces AS4520a. AS1021a/b replaces AS2421a/b. SS2857a replaces SS2657a. [@] In 2009 (Cal 2402a/b and AM2503a/b) replace(Cal 2502a & Cal 2503b) AS2427a/b will be offered both terms in W2009 only (b term only thereafter)	Notes: Courses common to more than 1 module taken will require substitution AS2557a(Financial Markets & Investments) is a new course that you may want to consider as an option course. This course covers some SOA Financial Economics exam material								

BSc(4 year): Including a Major in Actuarial Science (20.0courses)-OLD PROGRAM

For students who entered the program PRIOR to W2009(see 2008 Academic Calendar for complete info).

<p><u>Year 1 (5.0 Courses)</u></p> <p>Calculus 1000a/b (050a/b) or Cal 1100a/b</p> <p>Calculus 1501a/b (051a/b) or Cal 1301b (081b) with a mark of at least 85%</p> <p>Linear Algebra 1600a/b (040a/b)</p> <p>Stats 1023a/b (023a/b)</p> <p>1.0 other principal course</p> <p>2.0 options</p> <p>NOTE: at least 1.0 course must be chosen from at least two of Categories A, B, and C as listed on page 23 of the W2008 Academic Calendar</p> <p><u>Admission to the Major Module:</u></p> <p>Complete first year (5.0 courses) with no failures including:</p> <ul style="list-style-type: none"> • Minimum grade of 60% in each of: <ul style="list-style-type: none"> ○ Cal 1000a/b (050a/b) or Cal 1100a/b (or 85% minimum requirement in Cal 1301b (081b)) ○ Cal 1501b (051b) ○ Stats 1023a/b (023a/b) ○ Linear Algebra 1600a/b (040 a/b) ○ 1.0 other principal course <p>NOTE 1- Linear Algebra 1600a/b (040a/b) if not taken in 1st year must be completed prior to the second term of second year</p> <p>NOTE 2 – Stats 1023a/b if not taken 1st year must be completed before 3rd year.</p> <p>NOTE 3 - AM 1413 may be substituted for year 1 Calculus courses requirements</p> <p>NOTE 4 - AM1411a/b may be substituted for Linear Algebra 1600a/b</p>	<p><u>Graduation Requirements</u></p> <p>Breadth Requirement:</p> <ul style="list-style-type: none"> • At least 1.0 course from each of Category A, B, and C as listed on page 23 of the W2008 Academic Calendar <p>Essay Requirement:</p> <ul style="list-style-type: none"> • 2.0 essay courses (1.0 must be senior level course) You can include any Actuarial Science or Statistics essay course taken towards this requirement. <p>Senior Courses:</p> <ul style="list-style-type: none"> • 13.0 senior courses (numbered 2000-4999) <p>Average Requirements:</p> <ul style="list-style-type: none"> • Minimum overall 60% average on 20.0 courses • Minimum cumulative modular average of 60% in the major module • Passing grade in each option • Minimum cumulative modular average of 60% in any additional Major or Minor module completed <p>Residency Requirement:</p> <ul style="list-style-type: none"> • Majority of courses in module must be completed through UWO <p>*Note: To graduate with a BSc, you must have a total of at least 11.0 SCIENCE courses</p>								
<p><u>MODULE(6.0 Courses)- see notes below(*)</u></p> <p>2.0 courses: Actuarial Science 2553a, 2555a/b, 3427a/b, 3429b</p> <p>2.0 courses: Statistical Sciences 2657a, 2864a/b,2858b, 3657a</p> <p>1.0 courses: Calculus 2502a/b[@], 2503a/b[@]</p> <p>1.0 course in Actuarial Science at the 4000 level</p>	<p><u>Department Recommendation</u> for order in which modular courses should be taken:</p> <p><u>Second Year</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Cal 2402a[@]</td> <td style="width: 50%;">AM 2503b[@]</td> </tr> <tr> <td>AS 2553a</td> <td>AS2555a/b</td> </tr> <tr> <td>Stats 2857a* (for2657a)</td> <td>Stats 2864a/b</td> </tr> <tr> <td></td> <td>Stats 2858b</td> </tr> </table>	Cal 2402a[@]	AM 2503b[@]	AS 2553a	AS2555a/b	Stats 2857a* (for2657a)	Stats 2864a/b		Stats 2858b
Cal 2402a[@]	AM 2503b[@]								
AS 2553a	AS2555a/b								
Stats 2857a* (for2657a)	Stats 2864a/b								
	Stats 2858b								
<p><u>OPTIONS (4.5 Courses)</u></p> <p>Any additional Major or Minor module may be taken here. You must successfully complete this additional module with a minimum mark of 60%.</p>	<p><u>Third Year</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">AS 2427a/b *(for3427a/b)</td> <td style="width: 50%;">AS3429b</td> </tr> <tr> <td>Stats 3657a</td> <td></td> </tr> </table>	AS 2427a/b * (for3427a/b)	AS3429b	Stats 3657a					
AS 2427a/b * (for3427a/b)	AS3429b								
Stats 3657a									
<p><u>Progression Requirements</u></p> <ul style="list-style-type: none"> • Satisfy the progression requirements for the University (Level I and Level II as described in the Academic Calendar) 	<p><u>Fourth Year</u></p> <p>1.0 AS course at 4000 level</p>								
<p><u>Notes:</u></p> <p>* For Students <u>continuing</u> in the old modular programs in W2009:</p> <p>The following course substitutions need to be made;</p> <table style="width: 100%; border: none;"> <tr> <td>AS2427a/b replaces AS3427a.</td> <td>SS2857a replaces SS2657a.</td> </tr> <tr> <td>AS3424a replaces AS4424a.</td> <td>AS3431a replaces AS4422a</td> </tr> <tr> <td>AS1021a/b replaces AS2421a/b.</td> <td>SS2857a replaces SS2657a.</td> </tr> </table> <p>@ In 2009 (Calc 2402a/b and AM2503a/b) replace(Calc 2502a and Calc2503b)</p> <p>AS2427a/b will be offered both terms in W2009 only(b term only thereafter)</p>	AS2427a/b replaces AS3427a.	SS2857a replaces SS2657a.	AS3424a replaces AS4424a.	AS3431a replaces AS4422a	AS1021a/b replaces AS2421a/b.	SS2857a replaces SS2657a.	<p><u>Notes:</u></p> <p>This major can only be used in a 4 yr degree</p> <p>Most modular course pre-requisites stipulate a minimum grade of 60%</p> <p>Courses common to more than 1 module will require substitution</p> <p>AS2557a(Financial Markets & Investments) is a new course that you may want to consider as an option course. This course covers some SOA Financial Economics exam material</p>		
AS2427a/b replaces AS3427a.	SS2857a replaces SS2657a.								
AS3424a replaces AS4424a.	AS3431a replaces AS4422a								
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Honors BSc: Specialization in Financial Modelling (20.0courses)-OLD PROGRAM

For students who entered the program PRIOR to W2009(see 2008 Academic Calendar for complete info).

<p><u>Year 1 (5.0 Courses)</u></p> <p>Calculus 1000a/b or Cal 1100a/b</p> <p>Calculus 1501a/b or Cal 1301b with a mark of at least 85%</p> <p>Linear Algebra 1600a/b</p> <p>Stats 1023a/b & Comp Sci 1026a/b are recommended</p> <p>0.5 other principal course</p> <p>2.0 options</p> <p>NOTE: at least 1.0 course must be chosen from at least two of Categories A, B, and C as listed on page 23 of the W2008 Academic Calendar</p> <p><u>Admission to Honors Specialization Module:</u></p> <p>Complete first year (5.0 courses) with no failures including:</p> <ul style="list-style-type: none"> • Minimum average of 70% on 3.0 principal courses with no mark less than 60% in any of the 3 principal courses: <ul style="list-style-type: none"> ○ Cal 1000a/b or Cal 1100a/b(or 85% min requirement in Cal 1301b) ○ Cal 1501b ○ 2.0 other principal courses <p>NOTE 1: Linear Algebra 1600a/b if not taken in 1st year must be completed prior to the second term of second year</p> <p>NOTE 2: AM 1413 may be substituted for Year 1 Calculus course requirements.</p> <p>NOTE 3: AM 1411a/b may be substituted for Linear Algebra 1600a/b</p>	<p><u>Graduation Requirements</u></p> <p>Breadth Requirement:</p> <ul style="list-style-type: none"> • At least 1.0 course from each of Category A, B, and C as listed on page 23 of the W2008 Academic Calendar <p>Essay Requirement:</p> <ul style="list-style-type: none"> • 2.0 essay courses (1.0 must be senior level course) You can include any Actuarial Science or Statistics essay course taken towards this requirement <p>Senior Courses:</p> <ul style="list-style-type: none"> • 13.0 senior courses (numbered 2000-4999) <p>Average Requirements:</p> <ul style="list-style-type: none"> • Minimum 65% overall average on the 20.0 courses • Minimum cumulative modular average of 70% with no mark in any modular course less than 60% • Passing grade in each option • Minimum cumulative modular average of 60% in any additional Major or Minor module completed <p>Residency Requirement:</p> <ul style="list-style-type: none"> • Majority of courses in module must be completed through UWO <p>*Note: To graduate with a BSc, you must have a total of at least 11.0 SCIENCE courses</p>										
<p><u>MODULE (9.0 Courses) – see notes below(*)</u></p> <p>1.0 course: Actuarial Sciences 2553a, 2555a/b</p> <p>1.0 course: Calculus 2502a/b[@], 2503a/b[@]</p> <p>0.5 course: Differential Equations 2402a[@]</p> <p>2.0 courses: Applied Math 2811b, 2813B, 3815a/b, 3817a/b</p> <p>3.5 course: Statistical Sciences 2657a*, 2858b, 3652a/b, 3657a, 3858b, 3861a/b*, 4521F/G</p> <p>0.5 course from: Applied Math 3613b, Statistical Sciences 4520a/b*</p> <p>0.5 course from: Applied Math 4613a/b, 4617a/b</p>	<p>Department Recommendation for order in which modular courses should be taken:</p> <p><u>Second Year</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Cal 2502a</td> <td style="width: 50%;">AM2503b</td> </tr> <tr> <td>Stats 2857a(for 2657a)</td> <td>Stats 2858b</td> </tr> <tr> <td>DE 2402a</td> <td></td> </tr> </table> <p>To be taken in 2nd or 3rd Year (preferably 2nd):</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">AM 2811b</td> <td style="width: 50%;">AM 2813B</td> </tr> <tr> <td>AS 2553a</td> <td>AS 2555a/b</td> </tr> </table>	Cal 2502a	AM2503b	Stats 2857a (for 2657a)	Stats 2858b	DE 2402a		AM 2811b	AM 2813B	AS 2553a	AS 2555a/b
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<p><u>OPTIONS (6.0 Courses)</u></p> <p>Any additional Major or Minor module may be taken here. You must successfully complete this additional module with a minimum mark of 60%.</p>	<p><u>Third Year</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">AM 3815a/b</td> <td style="width: 50%;">AM 3817a/b</td> </tr> <tr> <td>SS 4930a/b(for 3652)</td> <td>SS 3657a/b</td> </tr> <tr> <td>SS 3858b</td> <td>SS 4861a/b(for 3861)</td> </tr> </table>	AM 3815a/b	AM 3817a/b	SS 4930a/b (for 3652)	SS 3657a/b	SS 3858b	SS 4861a/b (for 3861)				
AM 3815a/b	AM 3817a/b										
SS 4930a/b (for 3652)	SS 3657a/b										
SS 3858b	SS 4861a/b (for 3861)										
<p><u>Progression Requirements</u></p> <ul style="list-style-type: none"> • Minimum cumulative modular average of 70% • Minimum mark of 60% in each course of module • Passing grade in each option 	<p><u>Fourth Year</u></p> <p>SS 3520a/b(for 4520) or AM 3613b</p> <p>AM 4613a/b or AM 4617a/b</p> <p>SS 4521F/G</p>										
<p><u>Notes:</u></p> <p>* For students continuing in the old (W2008) modular program in 2009/10, the following course substitutions need to be made;</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">SS4930a replaces SS3652a.</td> <td style="width: 50%;">SS4861b replaces SS3861b.</td> </tr> <tr> <td>SS3520a replaces AS4520a.</td> <td>SS2857a replaces SS2657a.</td> </tr> </table> <p>[@] if Cal 2502a&2503b, &DE2402a not taken prior to sept.2009, you probably should complete the new W2009 module(see academic counselor if questions)</p>	SS4930a replaces SS3652a.	SS4861b replaces SS3861b.	SS3520a replaces AS4520a.	SS2857a replaces SS2657a.	<p><u>Notes:</u></p> <p>Courses common to more than 1 module taken will require substitution</p>						
SS4930a replaces SS3652a.	SS4861b replaces SS3861b.										
SS3520a replaces AS4520a.	SS2857a replaces SS2657a.										

For students who entered the program PRIOR to W2009(see 2008 Academic Calendar for complete info).

<p>Year 1 (5.0 Courses)</p> <p>Calculus 1000a/b (050a/b) or Cal 1100a/b Calculus 1501a/b (051a./b) or Cal 1301b (081b) with a mark of at least 85% Linear Algebra 1600a/b (040a/b) Stats 1023a/b (023a/b) 1.0 other principal course 2.0 options</p> <p>NOTE: at least 1.0 course must be chosen from at least two of Categories A, B, and C as listed on page 23 of the W2008 Academic Calendar.</p> <p>Admission to the Major Module: Complete first year (5.0 courses) with no failures including:</p> <ul style="list-style-type: none"> • Minimum grade of 60% in each of: <ul style="list-style-type: none"> ○ Cal 1000a/b (050a/b) or Cal 1100a/b or 85% minimum requirement in Cal 1301b (081b) ○ Cal 1501b (051b) ○ Stats 1023a/b (023a/b) ○ Linear Algebra 1600a/b (040 a/b) ○ 1.0 other principal course <p>NOTE 1- LinAlg 1600a/b if not taken in year 1 must be done by 2nd term of 2nd yr</p> <p>NOTE 2 - Stats 1023a/b if not taken in 1st year must be completed prior to 3rd yr</p> <p>NOTE 3 - AM 1413 may be substituted for year 1 calculus courses requirements</p> <p>NOTE 4 - AM 1411a/b may be substituted for Linear Algebra 1600a/b</p>	<p>Graduation Requirements</p> <p>Breadth Requirement:</p> <ul style="list-style-type: none"> • At least 1.0 course from each of Category A, B, and C as listed on page 23 of the W2008 Academic Calendar <p>Essay Requirement:</p> <ul style="list-style-type: none"> • 2.0 essay courses (1.0 must be senior level course) You can include any Actuarial Science or Statistics essay course taken towards this requirement. <p>Senior Courses:</p> <ul style="list-style-type: none"> • 13.0 senior courses (numbered 2000-4999) <p>Average Requirements:</p> <ul style="list-style-type: none"> • Minimum overall average of 60% on the 20.0 courses • Minimum cumulative modular average of 60% in the major module • Passing grade in each option • Minimum cumulative modular average of 60% in any additional Major or Minor module completed <p>Residency Requirement:</p> <ul style="list-style-type: none"> • Majority of courses in module must be completed through UWO <p>*Note: To graduate with a BSc, you must have a total of at least 11.0 SCIENCE courses</p>								
<p>MODULE (6.0 Courses) – see notes below(*)</p> <p>5.0 courses: Statistical Sciences 2657a*, 2864a/b, 2858b, 3652a/b , 3846a/b*, 3853F/G*, 3657a, 3858b, 3859a/b, 3861a/b*</p> <p>1.0 courses: Calculus 2502a/b[@] , 2503a/b[@]</p>	<p>Department Recommendation for order in which modular courses should be taken:</p> <p>Second Year</p> <table border="0"> <tr> <td>Cal 2402a[@]</td> <td>AM2503b[@]</td> </tr> <tr> <td>Stats 2857a(for 2657a)</td> <td>Stats 2864a/b</td> </tr> <tr> <td></td> <td>Stats 2858b</td> </tr> </table>	Cal 2402a [@]	AM2503b [@]	Stats 2857a(for 2657a)	Stats 2864a/b		Stats 2858b		
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Stats 2857a(for 2657a)	Stats 2864a/b								
	Stats 2858b								
<p>OPTIONS (9.0 Courses)</p> <p>Any additional Major or Minor module may be taken here. You must successfully complete this additional module with a minimum mark of 60%.</p>	<p>Third Year</p> <table border="0"> <tr> <td>Stats 4930a/b*(for 3652a)</td> <td>Stats4846b*(for 3846)^{##}</td> </tr> <tr> <td>Stats 4853F*(for 3853)^{##}</td> <td></td> </tr> <tr> <td>Stats 3657a</td> <td>Stats 3858b</td> </tr> <tr> <td>Stats 3859a/b</td> <td>Stats 4861a/b*(for 3861)</td> </tr> </table>	Stats 4930a/b*(for 3652a)	Stats4846b*(for 3846) ^{##}	Stats 4853F*(for 3853) ^{##}		Stats 3657a	Stats 3858b	Stats 3859a/b	Stats 4861a/b*(for 3861)
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Stats 3859a/b	Stats 4861a/b*(for 3861)								
<p>Progression Requirements</p> <ul style="list-style-type: none"> • Satisfy the progression requirements for the University (Level I and Level II as described in the Academic Calendar) 	<p>Fourth Year</p>								
<p>Notes:</p> <p>* For Students <u>continuing</u> in the old modular programs in W2009:</p> <p>The following course substitutions need to be made</p> <table border="0"> <tr> <td>S4930a replaces SS3652a (W2009 only)</td> <td>SS4853F replaces SS3853a/b^{##}</td> </tr> <tr> <td>SS4846a/b replaces SS3846a/b</td> <td>SS4861b replaces SS3861b</td> </tr> <tr> <td>SS3520a replaces AS4520a</td> <td>SS2857a replaces SS2657a</td> </tr> </table> <p>^{##} If not yet completed, take SS4846a/b in W2009 and SS4853 in W2010</p> <p>If you're finishing your degree this year(W2009)and have not yet taken SS3853a/b you can use one of the following courses as a substitute for 3853a/b; SS3520a/b, 4521a/b,AS3424a/b,4823a/b,4824a/b,AM 3815a/b, 3817a/b,3863, Bus 295F/G(this substitution will apply to 2010 grads only)</p> <p>[@] In 2009 (Cal 2402a/b and AM2503a/b) replace(Cal 2502a &Cal 2503b)</p>	S4930a replaces SS3652a (W2009 only)	SS4853F replaces SS3853a/b ^{##}	SS4846a/b replaces SS3846a/b	SS4861b replaces SS3861b	SS3520a replaces AS4520a	SS2857a replaces SS2657a	<p>Notes:</p> <p>Most modular course pre-requisites stipulate a minimum grade of 60%</p> <p>Courses common to more than 1 module will require substitution</p>		
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