

## Items approved by Education Council November 2, 2017

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<b>Education Council:</b> C Newitt, D Marques

### Arts and Foundational Programs

#### **COST 060 – 80 hours**

#### **Computers Studies 060**

##### **Course revision:**

- Content
- Description

##### **Rationale:**

The changes were made to match changes to the articulated learning outcomes that were adopted in the 2016/17 articulation guide. Many of the optional topics are now required topics and there were some updates to stay current with changes in technology.

##### **Calendar description:**

##### **Current:**

Computer Studies 60 is designed for students who wish to develop basic computer skills. The course will cover basic computer knowledge, keyboarding skills, word processing, email, and internet browsing. The emphasis will be on practical applications.

##### **Proposed:**

Computer Studies 60 is designed for students who wish to develop basic computer skills. This course will cover basic computer knowledge, keyboarding skills, word processing, email, and internet browsing. The emphasis will be on practical applications as opposed to theory and taught in a meaningful, personally relevant context.

**Implementation date:** January 2018

**Costs:** n/a

#### **MATH 012 – 96 hours**

#### **Mathematics 012**

##### **Course revision:**

- Description

##### **Rationale:**

Housekeeping to match the OC course description with the description in the articulated course outline. No new content.

##### **Calendar description:**

**Current:**

This course is designed to prepare students for further study in mathematics including calculus and technology courses. Topics include a brief algebra review, polynomial, exponential, logarithmic and trigonometric functions, inequalities, conics, sequences and series. Optional topics are geometry, an introduction to calculus, or systems of linear equations in three variables. This course is equivalent to Principles of Mathematics 12.

**Proposed:**

This course is designed to prepare students for further study in mathematics including calculus and technology courses. Topics include a brief algebra review, polynomial, exponential, logarithmic and trigonometric functions, inequalities, sequences and series. Optional topics are conic sections, permutations and combinations, binomial expansion, probability and an introduction to calculus. This course is equivalent to Pre-Calculus 12 (formerly Principles of Mathematics 12).

**Implementation date:** January 2018

**Costs:** n/a

**CHEM 012 – 96 hours****Chemistry 012****Course revision:**

- Description

**Rationale:**

Housekeeping to match the OC course description with the description in the articulated course outline. No new content.

**Calendar description:****Current:**

A continuation of Chemistry 011, this course includes chemical energetics, chemical and gaseous equilibrium, acids, bases and salts and properties of solutions, and electro-chemistry. A laboratory component is included.

**Proposed:**

A continuation of Chemistry 011, Chemistry 012 includes reaction kinetics, chemical equilibrium, acids, bases and salts, gas laws, and electro-chemistry. Optional topics may include: organic functional groups, thermochemistry, nuclear chemistry, biochemistry, environmental ethics and industrial applications. Laboratory work will complement the lecture topics.

**Implementation date:** January 2019

**Costs:** n/a

**PHYS 012 – 96 hours****Physics 012****Course revision:**

- Description

**Rationale:**

Housekeeping to match the OC course description with the description in the articulated course outline. No new content.

**Calendar description:****Current:**

This course is algebra-based. The basic concepts introduced in Physics 011 will be expanded. The areas of study will be vector kinematics, dynamics, statics, momentum, wave topics and electromagnetism. Selected concepts will be investigated experimentally and the scientific method will be further developed. A laboratory component is included.

**Proposed:**

This course is a study of basic kinematics and dynamics, statics, equilibrium conditions, electrostatics, electricity and magnetism, momentum and collisions, work, energy and power. SI units and vector analysis are used throughout. A laboratory component is included.

**Implementation date:** January 2018

**Costs:** n/a

**New course****PSYC 012 – 80 hours****Psychology 012****Rationale:**

This will create a social science option that will satisfy a course requirement of the BC Adult Graduation Diploma

**Calendar description:**

Students will explore the historical foundations of psychology, biological basis of behaviour, learning and memory, social psychology, theories on personality and motivation as well as psychological disorders through the use of lecture, research, scenarios, guest speakers and questioning. Understanding will be demonstrated through written reports, essays, summaries, responses, informal presentations, and seminars. As this is a provincial level course, a research paper exhibiting proper APA citation will be required.

**Prerequisites:**

Minimum 80% in English 070, or English 071 and 072; or a minimum grade of 60% in English 080, or English 081 and 082; or a minimum ABLE test score of 72/80 and an Advanced Level writing sample.

**Implementation date:** January 2018

**Costs:** none

## Science Technology and Health Programs

**COSC 404 – 3 – 5****Advanced Database Management Systems****Course revision:**

- Description
- Prerequisite

**Rationale:**

The current prerequisites for COSC 404 indicate COSC 226 or COSC 304 with a minimum grade of 60 required. COSC 226 does not exist and was removed from the calendar several years ago. The prerequisite for this course needs to be updated.

**Calendar description:****Current:**

This course is a continuation and expansion of the concepts from COSC 226 and 304. Review of database environment and database design principles are included. Advanced topics include recovery and concurrency control in distributed database systems, object and object relational databases, data mining, and data warehousing. Students will design and develop database applications using state-of-the-art technology. (3,2,0)

**Proposed:**

This course is a continuation and expansion of the concepts from COSC 304. Review of database environment and database design principles are included. Advanced topics include recovery and concurrency control in distributed database systems, object and object relational databases, data mining, and data warehousing. Students will design and develop database applications using state-of-the-art technology. (3,2,0)

**Prerequisite:**

	<b>Current</b>	<b>Proposed</b>
<b>Prerequisites</b>	A minimum grade of 60% in one of COSC 226 or COSC 304 or third year standing	A minimum grade of 60 on COSC 304 or third year standing

**Implementation date:** January 2018

**Costs:** n/a

**COSC 471 – 3 – 6      Software Engineering Project**

**Course revision:**

- Course description
- Prerequisite

**Rationale:**

The current prerequisites for COSC 471 indicate COSC 310 or COSC 470. COSC 310 does not exist and was removed from the calendar several years ago. The prerequisite for this course needs to be updated.

**Calendar description:**

**Current:**

This course involves the design, implementation and test of a large software system, using a team approach. Students will require significant out-of-class time to complete this course successfully. This course is to be taken in the final year of the BCIS degree.

**Proposed:**

This course involves the design, implementation and test of a large software system, using a team approach. Students will require significant out-of-class time to complete this course successfully. This course is to be taken in the final year of the BCIS degree.

**Prerequisites:**

	<b>Current</b>	<b>Proposed</b>
<b>Prerequisites</b>	COSC 310 or COSC 470 or fourth-year standing	COSC 470 or fourth-year standing

**Implementation date:** January 2018

**Costs:** n/a

**CIEN 133 – 3 – 4      Concrete Technology**

**Course revision:**

- Contact hours
- Prerequisite

**Rationale:**

A two-hour per week lab no longer provides sufficient time to cover current course content, making it necessary to increase the lab by one hour per week for a total of three lab hours per week.

**Contact hours:**

	<b>Current</b>	<b>Proposed</b>
<b>Lecture</b>	2	2
<b>Lab</b>	2	3
<b>Seminar</b>		

Students attend a two hour lecture and a three hour lab per week.

**Implementation date:** September 2018

**Costs:** n/a

**CIEN 143 – 3 – 4      Highway Material Testing I**

**Course revision:**

- Contact hours

- Title - change course title to **Highway Materials Testing I**

**Rationale:**

A two-hour per week lab no longer provides sufficient time to cover current course content, making it necessary to increase the lab by one hour per week for a total of three lab hours per week.

**Contact hours:**

	<b>Current</b>	<b>Proposed</b>
<b>Lecture</b>	2	2
<b>Lab</b>	2	3
<b>Seminar</b>		

Students attend a two hour lecture and a three hour lab per week.

**Implementation date:** September 2018

**Costs:** n/a

**CIEN 235 – 3 – 4      Municipal Design**

**Course revision:**

- Contact hours

**Rationale:**

A two-hour per week lab no longer provides sufficient time to cover current course content, making it necessary to increase the lab by 30 minutes per week for a total of 2.5 lab hours per week.

**Contact hours:**

	<b>Current</b>	<b>Proposed</b>
<b>Lecture</b>	2	2
<b>Lab</b>	2	2.5
<b>Seminar</b>		

Students attend a 2 hour lecture and a 2.5 hour lab per week.

**Implementation date:** September 2018

**Costs:** n/a

**CIEN 236 – 3 – 4      Highway Materials Testing II**

**Course revision:**

- Contact hours

**Rationale:**

Currently one hour of lecture time is included at the start of the lab but it is actually used as demonstration time. A two-hour per week lab no longer provides sufficient time to cover current course content, making it necessary to increase the lab by one hour per week for a total of three lab hours per week, and decrease the lecture by one hour per week for a total of one lecture hour per week.

**Contact hours:**

	<b>Current</b>	<b>Proposed</b>
<b>Lecture</b>	2	1
<b>Lab</b>	2	3
<b>Seminar</b>		

Students attend a one hour lecture and a three hour lab per week.

**Implementation date:** September 2018

**Costs:** n/a

## Civil Engineering Technology Diploma

### Program revision:

- Program outline
- Revision of courses

### Rationale:

The "Suggested Okanagan College Electives" section in the Civil Engineering Program Outline currently offers transfer options for UBCO Engineering students who wish to enroll in the Civil Engineering Technology Program at Okanagan College. The department would like to remove this option. The change to the lab hours more accurately reflects the following; what is currently done for the courses, to facilitate better scheduling, and to allow the students more hands on experiences in the laboratory.

### Program outline:

Current	Proposed
<p><b>Semester One</b>  <a href="#">CIEN 131</a> Drafting I  <a href="#">CIEN 139</a> Construction Surveying 1  <a href="#">CIEN 133</a> Concrete Technology (2,2,0)  <a href="#">CIEN 134</a> Statics and Strength of Materials I  <a href="#">CIEN 136</a> Applications for Engineering Principles  <a href="#">COSC 115</a> Microcomputer Orientation  <a href="#">CMNS 133</a> Technical Writing and Communications I  <a href="#">MATH 113</a> Mathematics for Civil Engineering Technology I                      Co-op Education/Employment Seminar</p>	<p><b>Semester One</b>  <a href="#">CIEN 131</a> Drafting I  <a href="#">CIEN 139</a> Construction Surveying 1  <a href="#">CIEN 133</a> Concrete Technology (2,3,0)  <a href="#">CIEN 134</a> Statics and Strength of Materials I  <a href="#">CIEN 136</a> Applications for Engineering Principles  <a href="#">COSC 115</a> Microcomputer Orientation  <a href="#">CMNS 133</a> Technical Writing and Communications I  <a href="#">MATH 113</a> Mathematics for Civil Engineering Technology I                      Co-op Education/Employment Seminar</p>
<p><b>Semester Two</b>  <a href="#">CIEN 141</a> Drafting II  <a href="#">CIEN 149</a> Construction Surveying 2  <a href="#">CIEN 143</a> Highway Material Testing I (2,2,0)  <a href="#">CIEN 144</a> Statics and Strength of Materials II  <a href="#">CIEN145</a>Elementary Hydraulics  <a href="#">CIEN 147</a> Software Applications for Engineering Technology  <a href="#">CIEN 148</a> Structural Design  <a href="#">MATH 123</a> Mathematics for Civil Engineering Technology II                      CIEN 101 Co-op Work Term I (May - August) 4 months                      CIEN 102 Co-op Work Term II (September - December) 4 months</p>	<p><b>Semester Two</b>  <a href="#">CIEN 141</a> Drafting II  <a href="#">CIEN 149</a> Construction Surveying 2  <a href="#">CIEN 143</a> Highway Material Testing I (2,3,0)  <a href="#">CIEN 144</a> Statics and Strength of Materials II  <a href="#">CIEN 145</a> Elementary Hydraulics  <a href="#">CIEN 147</a> Software Applications for Engineering Technology  <a href="#">CIEN 148</a> Structural Design  <a href="#">MATH 123</a> Mathematics for Civil Engineering Technology II                      CIEN 101 Co-op Work Term I (May - August) 4 months                      CIEN 102 Co-op Work Term II (September - December) 4 months</p>
<p><b>Semester Three</b>  <a href="#">CIEN 231</a> Watershed Management  <a href="#">CIEN 232</a> Construction Estimating  <a href="#">CIEN 233</a> Engineering Soils  <a href="#">CIEN 234</a>(1) Structural Design in Wood [remove superscript 1]  <a href="#">CIEN 235</a>(1) Municipal Design (2,2,0) [and remove superscript 1]  <a href="#">CIEN 236</a>(1) Highway Materials Testing II (2,2,0) [and remove superscript 1]</p>	<p><b>Semester Three</b>  <a href="#">CIEN 231</a> Watershed Management  <a href="#">CIEN 232</a> Construction Estimating  <a href="#">CIEN 233</a> Engineering Soils  <a href="#">CIEN 234</a> Structural Design in Wood [remove superscript 1]  <a href="#">CIEN 235</a> Municipal Design (2,2.5,0) [and remove superscript 1]  <a href="#">CIEN 236</a> Highway Materials Testing II (1,3,0) [and remove superscript 1]  <a href="#">CIEN 237</a> Design of Urban Road Systems</p>

<p> <a href="#">CIEN 237</a> Design of Urban Road Systems  <a href="#">CMNS 143</a> Technical Writing and Communications II            CIEN 103 Co-op Work Term III (May - August) 4 months         </p>	<p> <a href="#">CMNS 143</a> Technical Writing and Communications II            CIEN 103 Co-op Work Term III (May - August) 4 month         </p>
<p> <b>Semester Four</b>  <a href="#">CIEN 240</a> Project  <a href="#">CIEN 241</a> Project Management  <a href="#">CIEN 242</a> Steel Detailing and Estimating  <a href="#">CIEN 244(1) Structural Design in Concrete [remove superscript 1]</a>  <a href="#">CIEN 245(1) Municipal Engineering [remove superscript 1]</a>  <a href="#">CIEN 246(1) Pavements [remove superscript 1]</a>  <a href="#">CIEN 248</a> Construction Law  <a href="#">CIEN 249</a> Computer Applications for Civil Engineering         </p>	<p> <b>Semester Four</b>  <a href="#">CIEN 240</a> Project  <a href="#">CIEN 241</a> Project Management  <a href="#">CIEN 242</a> Steel Detailing and Estimating  <a href="#">CIEN 244</a> Structural Design in Concrete <b>[remove superscript 1]</b>  <a href="#">CIEN 245</a> Municipal Engineering <b>[remove superscript 1]</b>  <a href="#">CIEN 246</a> Pavements <b>[remove superscript 1]</b>  <a href="#">CIEN 248</a> Construction Law  <a href="#">CIEN 249</a> Computer Applications for Civil Engineering         </p>

**REMOVE SECTION BELOW FROM CALENDAR**

Students may replace, with approval from the Civil Engineering Technology department, two of the following CIEN courses with the Okanagan College courses listed below or equivalents of equal credit (six credits maximum). Students may replace one structural course (CIEN 234 or CIEN 244), and/or one materials course (CIEN 236 or CIEN 246) and/or one municipal course (CIEN 235 or CIEN 245).

**Proposed date of implementation:** January 2018

**Costs:** n/a

**New course****ANIM 101****Co-op Work Term****Rationale:**

Creation of a course code to recognize student participation in co-op work term

**Prerequisites:**

- Be registered full-time in the Animation program
- Successfully complete all first-year courses in the Animation program with a minimum grade of 60%.

**Implementation date:** January 2018

**Costs:** Co-op fee of \$86.15

**Animation Diploma****Program revision:**

- Program outline
- Revision of courses

**Rationale:**

The Animation program would like to add the option of Co-op Education to the program. This co-op work term would occur between the first and second year of the program.

**Program outline:**

The Co-op work term will take place from May to August, available after year one and before the start of year two of the program.

**Proposed date of implementation:** January 2018

**Costs:** n/a