

Course

ELEC-A7151

Course materials

Your points

Code

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This course has already ended.  
The latest instance of the course can be found at: [Object oriented programming with C++: 2023 Autumn](#)

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questionnaire

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Getting Started0 / 0

Friday, 10 September 2021, 07:59 – Friday, 31 December 2021, 19:59

Assignment	Category	Submissions	Points
1 Development environment			
2 Exercises			
3 Common problems			

questionnaire

30 / 30

submit

470 / 470

Module 1: Basics100 / 100

Tuesday, 14 September 2021, 07:59 – Friday, 8 October 2021, 19:59  
*Late submissions are allowed until Sunday, 10 October 2021, 19:59. However, points are only worth 70%.*

Assignment	Category	Submissions	Points
1 Introduction			
2 Namespaces			
3 I/O streams			
First touch	submit	3	5 / 5
Rectangle	submit	4	10 / 10
4 Strings and vectors			
Vectors	submit	1	10 / 10
Vector of strings	submit	4	15 / 15
5 Classes and objects			
Simple class	submit	12	10 / 10
Dog class	submit	1	20 / 20
Bank account	submit	2	25 / 25
6 Round feedback			
Round feedback	questionnaire	1	5 / 5

Module 2: Containers100 / 100

Tuesday, 14 September 2021, 08:00 – Friday, 8 October 2021, 19:59  
*Late submissions are allowed until Sunday, 10 October 2021, 19:59. However, points are only worth 70%.*

Assignment	Category	Submissions	Points
1 Introduction			
2 Sequential containers			
3 Iterators			
Vector iterators	submit	11	10 / 10
List	submit	7	10 / 10
Matrix rotation	submit	6	15 / 15
Library	submit	20	30 / 30
4 Associative Containers			
5 Summary on containers			
6 Algorithms			
Pokemon	submit	7	30 / 30
6 Round feedback			
Round feedback	questionnaire	1	5 / 5

Module 3: Classes and Object-oriented Programming100 / 100

Friday, 24 September 2021, 19:59 – Friday, 8 October 2021, 19:59  
*Late submissions are allowed until Friday, 15 October 2021, 19:59. However, points are only worth 70%.*

Assignment	Category	Submissions	Points
1 Introduction			
2 Object-oriented programming			
3 Object relationships in C++			
Mammals	submit	2	15 / 15
4 Operator Overloading			
Trolls and dragons	submit	1	10 / 10
Overload operators	submit	1	20 / 20
5 Dynamic Memory in C++			
Birds	submit	2	25 / 25
6 More about dynamic memory			
Dragons	submit	12	25 / 25
7 Round feedback			
Round feedback	questionnaire	1	5 / 5

Module 4: Organization and Utility Constructs100 / 100

Friday, 1 October 2021, 19:59 – Friday, 15 October 2021, 19:59  
*Late submissions are allowed until Friday, 22 October 2021, 19:59. However, points are only worth 70%.*

Assignment	Category	Submissions	Points
1 Introduction			
2 I/O in C++			
Vehicle register	submit	47	25 / 25
Polynomial	submit	14	25 / 25
3 Generic programming using templates			
ToString	submit	11	20 / 20
4 Smart pointers and resource management			
Restricted pointer	submit	22	25 / 25
5 Round feedback			
Round feedback	questionnaire	1	5 / 5

Module 5: Advanced Topics100 / 100

Monday, 4 October 2021, 19:59 – Friday, 22 October 2021, 19:59  
*Late submissions are allowed until Friday, 29 October 2021, 19:59. However, points are only worth 70%.*

Assignment	Category	Submissions	Points
1 Introduction			
2 Exception handling			
StrPrinter	submit	9	30 / 30
Custom exception	submit	42	25 / 25
Triple	submit	7	15 / 15
3 Lambda expressions			
Transcript	submit	19	20 / 20
4 Learning environment survey			
Learning environment survey	questionnaire	1	5 / 5
5 Round feedback			
Round feedback	questionnaire	1	5 / 5

Module 6: Software Projects0 / 0

Monday, 18 October 2021, 07:59 – Friday, 17 December 2021, 19:59

Assignment	Category	Submissions	Points
1 Introduction			
2 Project guidelines			
3 Project topics and descriptions			
4 Recommended libraries			

Software development tools0 / 0

Tuesday, 14 September 2021, 08:00 – Friday, 17 December 2021, 19:59

Assignment	Category	Submissions	Points
1 Built automation tools			
2 Software libraries			
3 Git			
4 Valgrind			