Stevens Institute of Technology

School of Business

**AACSB
ASSURANCE OF LEARNING**

**Master of in Finance**

**LEARNING GOAL # 3**

**Students will achieve mastery of the technical and basic quantitative methods required for the Finance domain.**

**Responsibility:** Dragos Bozdog

July 2021

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# INTRODUCTION: LEARNING GOAL #3

*Students will achieve mastery of the technical and basic quantitative methods required for the Finance domain.*

This goal is assessed in FE511 Financial Lab: Introduction to Bloomberg and Thomson Reuters, which is one of the required courses in the MFIN curriculum. This learning goal help student to develop the capability to examine the context of modeling tasks and employ commercial-grade financial information tools. In FE511, the students become proficient in the basic and advanced features of standard financial toolkits, employ complex queries, and analyze the financial databases for financial decisions. The analytical capabilities of the financial toolkit are further explored to generate customized financial reports. A key goal is to enable students to construct financial models using financial databases, programming features and other analytic capabilities of the financial toolkit.

There are **specific competencies** that are needed in the development of technical and advanced quantitative methods. The skills that are targeted are comprehension of financial databases, querying and retrieval of information, model building ability.

# LEARNING OBJECTIVES AND TRAITS

|  |  |
| --- | --- |
| **MFIN 3:** | **Learning Goal, Objectives and Traits** |
| **GOAL** | **Students will achieve mastery of the technical and basic quantitative methods required for the Finance domain.** |
| **Objective 1:** | *Students will demonstrate the capability to examine the context of a modeling task and employ commercial-grade financial information tools, such as Bloomberg, and Thomson-Reuters (“the standard financial toolkit”) and efficient techniques to conduct the modeling.*  |
| **Traits** |   |
| Trait 1: | The student becomes thoroughly familiar with the basic and advanced features and properties of the standard financial toolkit. |
| Trait 2: | The student becomes knowledgeable in querying and analyzing financial databases for investment decisions and can demonstrate the ability to select the appropriate tools to generate financial reports. |
| Trait 3: | The student becomes knowledgeable in constructing financial forecasting models, using the financial databases, and programming features of the standard financial toolkit. |

# RUBRICS

|  |
| --- |
|  **MFIN LEARNING GOAL - 3: RUBRIC 1** |
| **MFIN 3** | **Students will achieve mastery of the technical and basic quantitative methods required for the Finance domain.** |
| **Objective 1** | *Students will demonstrate the capability to examine the context of a modeling task and employ commercial-grade financial information tools, such as Bloomberg, and Thomson-Reuters (“the standard financial toolkit”) and efficient techniques to conduct the modeling.* |
|   | **Trait** | **Poor** | **Good** | **Excellent** | **Score** |
|   | **Value** | **0** | **8.5** | **9.5** |  |
| Trait 1: | The student becomes thoroughly familiar with the basic and advanced features and properties of the standard financial toolkit.  | Poor understanding of the elements and capabilities of the standard financial toolkit. | Ability to effectively navigate and operate each of the elements of the standard financial toolkit. | Fluency in navigating and operating each of the elements of the standard financial toolkit, to a level commensurate with current commercial practice. |   |
| Trait 2: | The student becomes knowledgeable in querying and analyzing financial databases for investment decisions and can demonstrate the ability to select the appropriate tools to generate quantitative financial reports.  | Poor understanding of the capabilities of the standard financial toolkit and lack of ability to aggregate information, perform quantitative analysis, and generate quantitative financial reports.  | Ability to use effectively the features of the financial toolkit, moderate skills in aggregating and analyzing financial data, and generating financial reports. | Fluency and efficiency in selecting the best element of the standard financial toolkit for a given task, and to be able to querying, aggregating, analyzing, and generating financial reports to a level commensurate with current commercial practice. |   |
| Trait 3: | The student becomes knowledgeable in constructing financial forecasting models, using the financial databases, and programming features of the standard financial toolkit. | Student is not able to construct and debug simple quantitative financial models. | Student can construct simple quantitative financial models, with efficiency and average skill.  | Students can carefully construct financial forecasting models, using the financial databases and programming features of the standard financial toolkit to a level commensurate with current commercial practice. |   |
| **Does not meet expectations: 0 – 7.49; Meets: 7.5-9.49; Exceeds: 9.50-10.00** |

# ASSESSMENT PROCESS

|  |  |  |
| --- | --- | --- |
| **Where & when measured?** | **How measured?** | **Criterion** |
| Assessed in Bloomberg Market Concepts certification exam and Final Project of the required course *FE 511 Financial Lab: Introduction to Bloomberg and Thomson Reuters. A*ssessed in the Fall semester each year. | Description: Direct measure – Relevant exam questions and individual written project are graded by course owners and aggregated to obtain a score.Indirect measure - Bloomberg Market Concepts certification exam, competitions, exit surveys, advisory board feedback …Sampling: Students from the MFIN & MBA program are assessed, since this is a joint course. | % of students get a grade of GOOD or better as measured by the rubric for this learning goal |

# RESULTS OF LEARNING GOAL ASSESSMENT – INTRODUCTION

The results of the initial learning goal assessments carried out to date are included below.

**Explanation for direct measurements:**

Each learning goal has a number of learning objectives, and performance on each objective is measured using a rubric that, in turn, contains a number of desired “traits.” Students are scored individually on each trait.

The grading sheets for each student are used to develop a Summary Results Sheet for each learning goal objective. A selection of these summaries is included below.

The first table in the Summary Results Sheet for a learning objective/trait gives the counts of students falling in each of the three categories:

* Does Not Meet Expectations
* Meets Expectations
* Exceeds Expectations

The right-hand column in the table is used to record the average score of the students on each trait. This table provides an indication of the relative performance of students on each trait.

The second table on each sheet provides the counts of students who fall in each of the above three categories for the overall learning objective.

The person doing the assessment provides explanatory comments and recommendations on the bottom of the Results Summary Sheet. The recommendations improve content or pedagogy changes for the next time the course is given.

**Explanation for indirect measurements:**

Indirect measurements will be taken at periodic intervals. Depending on the measurement chosen a diagnostic tool will be selected for analysis.

# RESULTS OF ASSESSMENT FALL: 2021

**LEARNING GOAL #3:
Students will achieve mastery of the technical and basic quantitative methods required for the Finance domain.**

**LEARNING OBJECTIVE #1:***Students will demonstrate the capability to examine the context of a modeling task and employ commercial-grade financial information tools, such as Bloomberg, Capital IQ, or Refinitiv (“the standard financial toolkit”) and efficient techniques to conduct the modeling.*

**ASSESSMENT DATE: Fall 2021 ASSESSOR: Dragos Bozdog
NO. of Students Evaluated: 56 COURSE: FE 511 A and FE 511 B (On-Campus)**

|  |  |  |
| --- | --- | --- |
|  | **Number of Students** |  |
| **Learning Goal Traits** | **Not Meet Expectations** | **Meets Expectations** | **Exceeds Expectations** | **Average Grade** |
| The student becomes thoroughly familiar with the basic and advanced features and properties of the standard financial toolkit. | **7** | **42** | **7** | **8.73** |
| The student becomes knowledgeable in querying and analyzing financial databases for investment decisions and can demonstrate the ability to select the appropriate tools to generate quantitative financial reports.  | **2** | **41** | **13** | **8.87** |
| The student becomes knowledgeable in constructing financial forecasting models, using the financial databases and programming features of the standard financial toolkit. | **2** | **32** | **22** | **8.92** |
| **Average Grade (Out of 10) =** | **8.84** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Not Meet Expectations** | **Meets Expectations** | **Exceeds Expectations** |
| **Total Students by Category***(Based on average score across all traits)* | **2** | **47** | **7** |
| **Students meeting or exceeding expectations:** | **54** |

**COMMENTS:** The overall results indicate a fair distribution of the grades with most of the students meeting the expectations.

**REMEDIAL ACTIONS:** Increase focus on the advanced features of the standard financial toolkit.

**LEARNING OBJECTIVE #1:***Students will demonstrate the capability to examine the context of a modeling task and employ commercial-grade financial information tools, such as Bloomberg, Capital IQ, or Refinitiv (“the standard financial toolkit”) and efficient techniques to conduct the modeling.*

**ASSESSMENT DATE: Fall 2021 ASSESSOR: Dragos Bozdog
NO. of Students Evaluated: 17 COURSE: FE 511 WS (WebCampus)**

|  |  |  |
| --- | --- | --- |
|  | **Number of Students** |  |
| **Learning Goal Traits** | **Not Meet Expectations** | **Meets Expectations** | **Exceeds Expectations** | **Average Grade** |
| The student becomes thoroughly familiar with the basic and advanced features and properties of the standard financial toolkit. | **3** | **11** | **3** | **8.64** |
| The student becomes knowledgeable in querying and analyzing financial databases for investment decisions and can demonstrate the ability to select the appropriate tools to generate quantitative financial reports.  | **2** | **12** | **3** | **8.80** |
| The student becomes knowledgeable in constructing financial forecasting models, using the financial databases and programming features of the standard financial toolkit. | **0** | **13** | **4** | **9.28** |
| **Average Grade (Out of 10) =** | **8.91** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Not Meet Expectations** | **Meets Expectations** | **Exceeds Expectations** |
| **Total Students by Category***(Based on average score across all traits)* | **0** | **16** | **1** |
| **Students meeting or exceeding expectations:** | **17** |

**COMMENTS:** The overall results indicate a fair distribution of the grades with most of the students meeting the expectations. Trait 3 of learning objective 1 proved challenging to students.

**REMEDIAL ACTIONS:** Increase focus on the advanced features of the standard financial toolkit.

**LEARNING OBJECTIVE #1:***Students will demonstrate the capability to examine the context of a modeling task and employ commercial-grade financial information tools, such as Bloomberg, Capital IQ, or Refinitiv (“the standard financial toolkit”) and efficient techniques to conduct the modeling.*

**ASSESSMENT DATE: Fall 2021 ASSESSOR: Dragos Bozdog
NO. of Students Evaluated: 73 COURSE: FE 511 A, FE 511 B, and FE 511 WS (On-Campus and WebCampus combined)**

|  |  |  |
| --- | --- | --- |
|  | **Number of Students** |  |
| **Learning Goal Traits** | **Not Meet Expectations** | **Meets Expectations** | **Exceeds Expectations** | **Average Grade** |
| The student becomes thoroughly familiar with the basic and advanced features and properties of the standard financial toolkit. | **10** | **50** | **10** | **8.71** |
| The student becomes knowledgeable in querying and analyzing financial databases for investment decisions and can demonstrate the ability to select the appropriate tools to generate quantitative financial reports.  | **3** | **52** | **15** | **8.88** |
| The student becomes knowledgeable in constructing financial forecasting models, using the financial databases and programming features of the standard financial toolkit. | **5** | **43** | **22** | **8.22** |
| **Average Grade (Out of 10) =** | **8.82** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Not Meet Expectations** | **Meets Expectations** | **Exceeds Expectations** |
| **Total Students by Category***(Based on average score across all traits)* | **2** | **55** | **13** |
| **Students meeting or exceeding expectations:** | **68** |

**COMMENTS:** The overall results indicate a fair distribution of the grades with most of the students meeting the expectations. Trait 3 of learning objective 1 proved challenging to students.

**REMEDIAL ACTIONS:** Increase focus on the advanced features of the standard financial toolkit.

# OUTCOMES: FIN LEARNING GOAL #3 AFTER ASSESSMENTS

Comments:

The following table shows the average scores on each goal objective.

|  |  |
| --- | --- |
|  | Objective 1 - Students will demonstrate the capability to examine the context of a modeling task and employ commercial-grade financial information tools, such as Bloomberg, and Thomson-Reuters (“the standard financial toolkit”) and efficient techniques to conduct the modeling. |
| Fall 2021 (On-Campus) | 8.84 |
| Fall 2021 (WebCampus) | 8.91 |
| Fall 2021 (COMBINED) | 8.82 |

# CLOSE LOOP PROCESS – CONTINUOUS IMPROVEMENT RECORD

**Assurance of Learning**

**Assessment/Outcome Analysis**

**Close Loop Process - Continuous Improvement Record**

**Program:** Master in Finance

**Goal 3:** Students will achieve mastery of the technical and basic quantitative methods required for the Finance domain.

**Goal Owner:** Dragos Bozdog

**Where Measured:** Bloomberg Market Concepts certification exam and Final Project in the required course. FE 511 Financial Lab: Introduction to Bloomberg and Thomson Reuters.

**How Measured:** Relevant exam and project report are required by course owner and the results are aggregated to obtain a total score. Indirect measurement taken periodically – competitions, exit surveys, advisory board feedback ...

**Closing the Loop: Actions taken on specific objectives**

|  |  |
| --- | --- |
| **Objective 1** | *Students will demonstrate the capability to examine the context of a modeling task and employ commercial-grade financial information tools, such as Bloomberg, and Thomson-Reuters (“the standard financial toolkit”) and efficient techniques to conduct the modeling.* |
| **When Assessed** | Fall 2021 |
| **Remedial Action** | Increase focus on the advanced features of the standard financial toolkit. |
| **Outcome from previous assessment** | THIS WILL BE BLANK FOR THE FIRST ASSESSMENT |
| **When Assessed** |  |
| **Remedial Action** |  |
| **Outcome from previous assessment** |  |
| **When Assessed** |  |
| **Remedial Action** |  |
| **Outcome from previous assessment** |  |