**科目名称：软件工程专业英语**

**参考书目：**

1.《软件工程导轮》（第六版），张海藩（著），清华大学出版社，2013 年 8 月

2.《Software engineering — 9th ed.》，Ian Sommerville，机械工业出版社，2009 年 5 月

3.《软件工程专业英语》，吕云翔（著），清华大学出版社，2014 年 12 月

**考点：**

第 1 章 Introduction

1.1 Software crisis

1.2 Software engineering

1.3 Professional software development

第 2 章 Software processes

2.1 Software process models

2.2 Process activities

2.3 Coping with change

第 3 章 Requirements engineering

3.1 Functional and non-functional requirements

3.2 The software requirements document

3.3 Requirements specification

3.4 Requirements engineering processes

3.5 Requirements elicitation and analysis

3.6 Requirements validation

3.7 Requirements management

第 4 章 System modeling

4.1 Context models

4.2 Interaction models

4.3 Structural models

4.4 Behavioral models

4.5 Model-driven engineering

第5 章 Architectural design

5.1 Architectural design decisions

5.2 Architectural views

5.3 Architectural patterns

5.4 Application architectures

第6 章 Design and implementation

6.1 Object-oriented design using the UML

6.2 Design patterns

6.3 Implementation issues

6.4 Programming language

6.5 Programming style

6.6 Programming complexity

第 7 章 Software testing

7.1 Development testing

7.2 Test-driven development

7.3 Release testing

7.4 User testing

第 8 章 Software evolution

8.1 Evolution processes

8.2 Program evolution dynamics

8.3 Software maintenance

8.4 Legacy system management