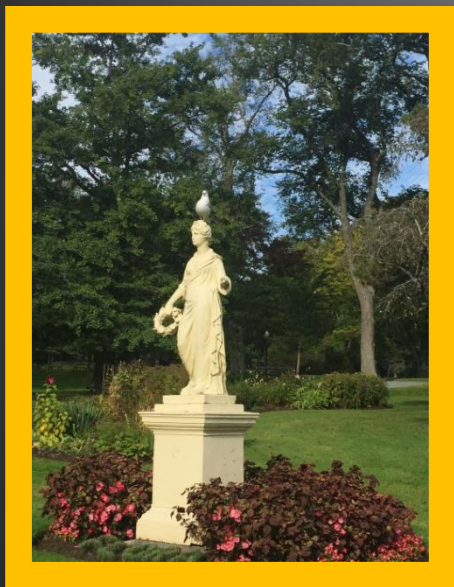


# 贵阳职业技术学院 加拿大荷兰学院 合作办学项目 中方教师赴加培训工作报告

信息科学系

谢红

刘海波



# 内容

- » 赴加学习情况小节
- 中加职业教育差异浅析
  - 以计算机网络技术为例
- 合作办学模式探讨

# 概况

9月8日至12月4日，谢红与刘海波两位老师赴加拿大爱德华王子岛省荷兰学院进行了为期13周的培训：

- ▶ 完成11门课程的旁听及实践环节的参与
- ▶ 4个培训课程的学习
- ▶ 10个小时左右的英语培训
- ▶ 深入体验了加方计算机网络技术专业的教学运作和荷兰学院教育理念在教学实践中的贯彻
- ▶ 提升了教师参与国际化教育交流项目的的能力
- ▶ 为在本校开展合作办学项目奠定了坚实的基础。





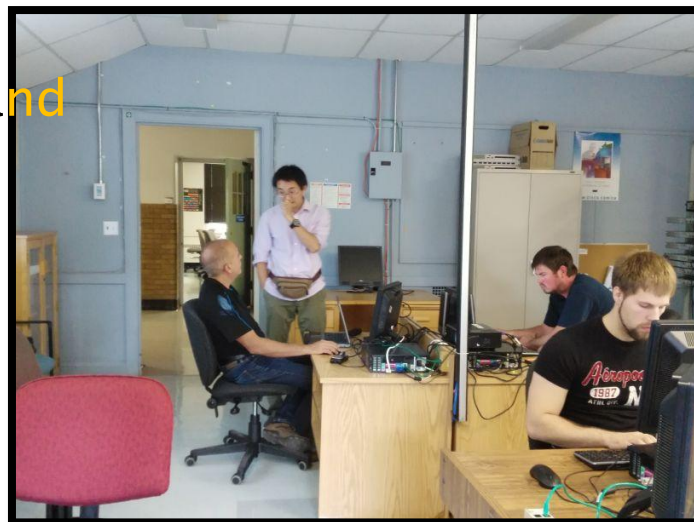
# 旁听课程和参与实践环节

## ▶ 谢红

- 计算机硬件 A + Hardware
- 计算机软件 A+ Software
- 技术性沟通 Technical Communications
- 思科网络学院 CCNA-I
- 计算机基础 Computer Essentials
- 项目管理 Project Management

## ▶ 刘海波

- 活动目录 Active Directory
- 虚拟化 Virtualization
- 网络分析与设计 Network Analysis and Design
- 网络多媒体 VVoN
- 技术项目报告 Technical Project Presentation



# 参加培训课程(Workshop)

## ▶ Joanne MacDonald

- Holland College Curriculum Model & “Competency Based Education”

## ▶ Tim McRoberts

- “Activity Based Learning”

## ▶ Tara MacCallum

- WebAdvisor

## ▶ Howard Beattie

- SAM

## ▶ Jolene and Joanne

- Faculty Preparation and Q&A



# 英语培训

- ▶ 了解当地风土人情,更好地与本地教师融洽相处
- ▶ 提升英语口语能力,更从容自信地在日常工作中使用英语交流
- ▶ Special thanks to English instructor Pam Betteridge



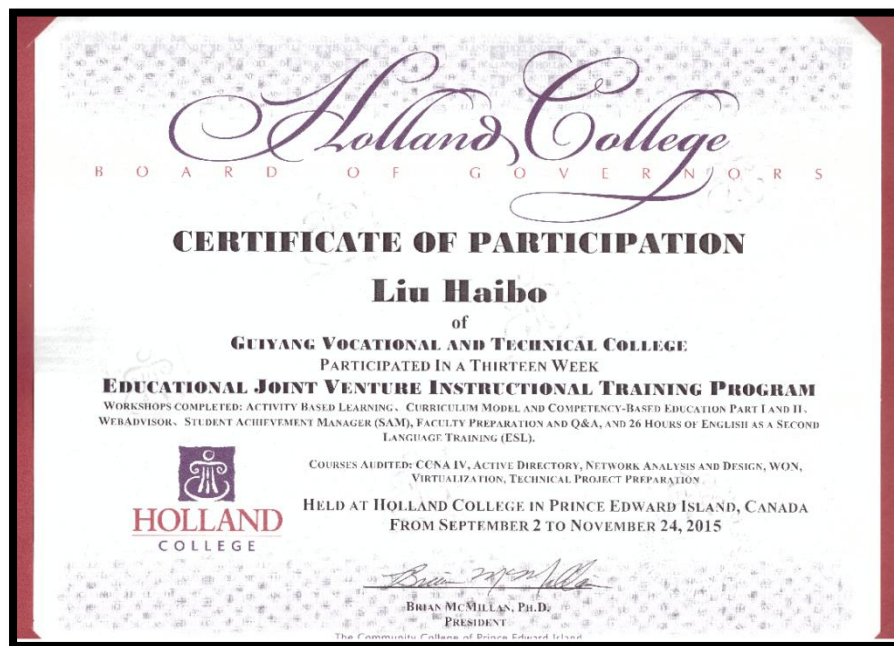
# 讨论合作项目教学环节的各个细节

- ▶ 学籍及成绩管理
- ▶ 教材的选取
- ▶ 等价（可替换）课程清单
- ▶ 培养计划的重新映射（Program Map）：从两学年的培养计划映射为三学年的培养计划



# 颁发证书

- ▶ 向McMillan校长汇报总结本次培训的学习体会，获得校长颁发的培训证书。





# 中加职业教育差异浅析

## ——以计算机网络技术为例



• “明松暗紧”

• 分析式(Analytical)教学v.s.综合式(Synthetical)教学

• 以实践为导向的教学

• 校企合作

• 职业素养

• 教育理念与原则——以竞争力为导向的教育方法

• 教育理念与原则——在CNT Program中的体现

# “明松暗紧”

## “明松”

- 考勤没有要求
- 课堂纪律松散随意
- 气氛轻松活跃
- 吃零食、上网、玩手机、打瞌睡、“摆龙门阵”
- 上课时间随意性强

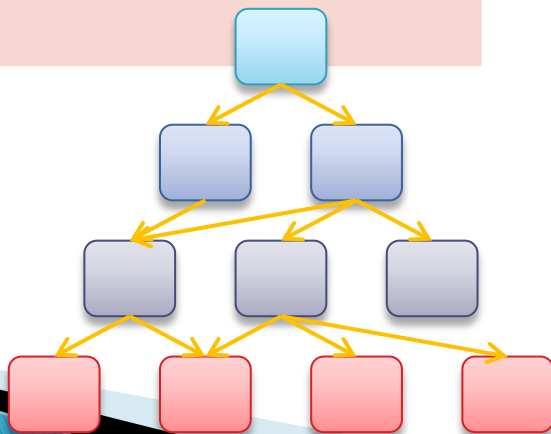
## “暗紧”

- 作业量大，频次高
- 调研报告、实验报告撰写要求高——论文标准ABA
- 如何评价学习质量——Rubric的设计
- 考试作弊的处理
- 剽窃的处理
- 学位(diploma)授予

# 分析式教学v.s.综合式教学

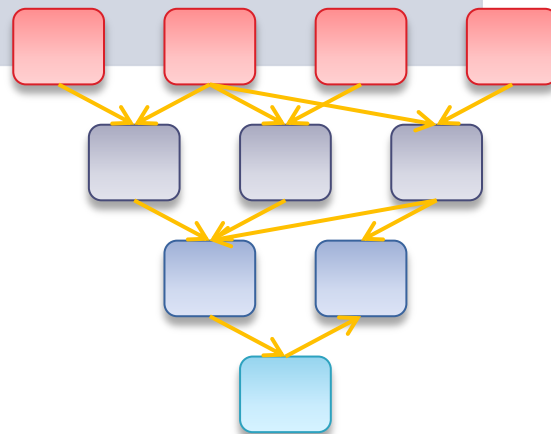
## 分析式教学

- 自顶向下的过程
- 任务逐级分解、逐级细化
- 在工程技术的训练中有较大优势



## 综合式教学

- 自底向上的过程
- 由细节到整体
- 更适合严谨的学术训练

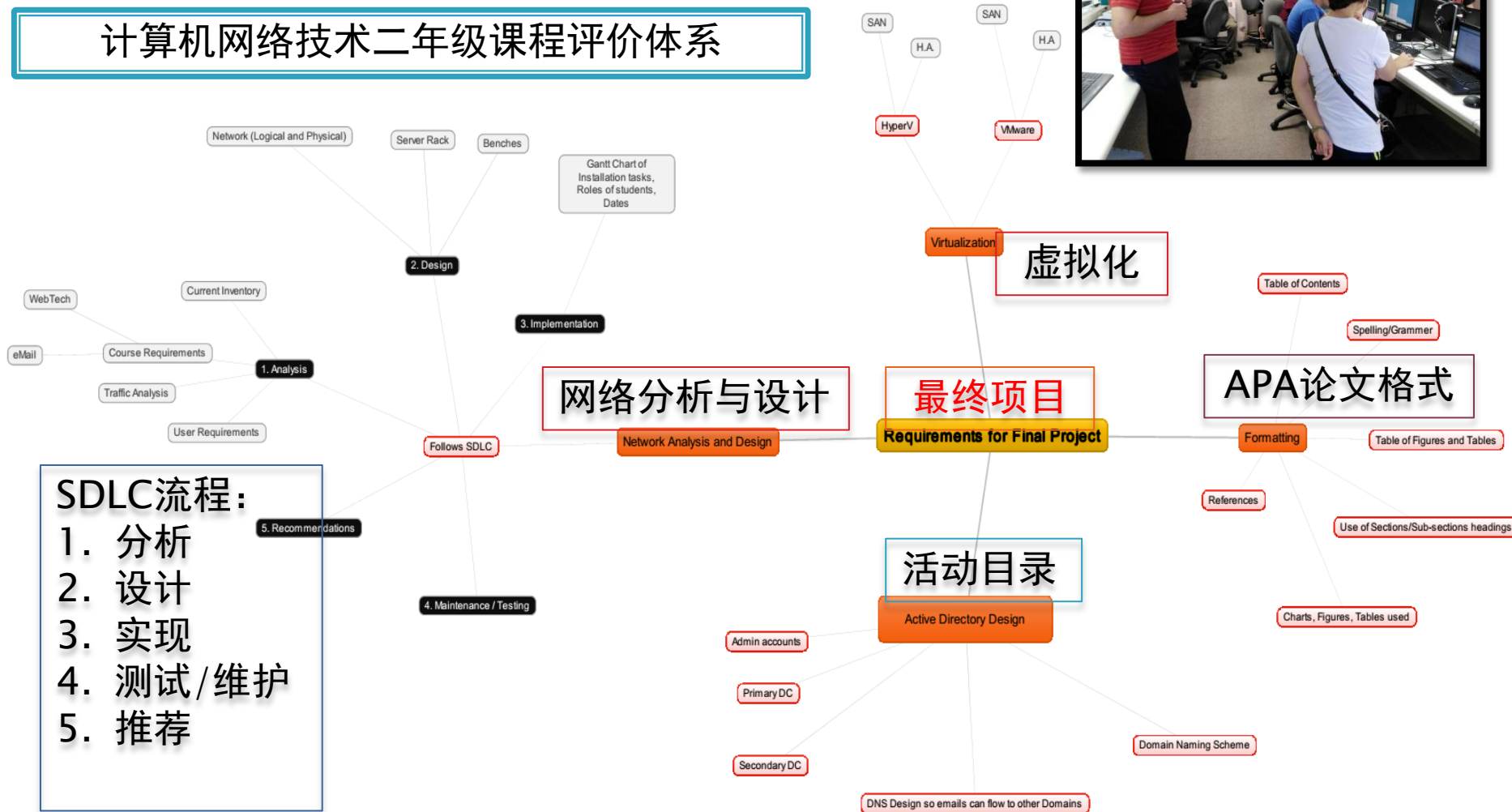




# 以实践为导向的教学



## 计算机网络技术二年级课程评价体系



# 什么是真正的项目化教学?

# 以实践为导向的教学(续)

通过SharePoint工具组织最终项目

跨课程，全班性的合作



## 什么是真正的项目化教学?

2016/2/21

13

# 校企合作

## ▶ 教师的行业背景

- Chris Arsenault: 负责Holland College多个园区的IT基础设施规划筹建工作，有多年的行业背景。与业界工程师有密切联系。
- Rob Blanchard: 多次带队参加国际技能大赛并获奖

## ▶ 行业对专业及课程设置的影响

- 行业专家组成的委员会与学院相关专业教师及课程设计专家每年进行定期会议，讨论课程的更新

## ▶ 行业与学生就业的关系

- 实习
- 优秀学生的推荐

## ▶ 行业对学院办学条件的支持

- 大量捐赠生产线淘汰下来的设备用于支持教学



# 职业素养

## ▶ 专业化

- 符合公司规范的会议组织形式（有效议事的六要素）
  - 事先时间、地点、参会人
  - 事先准备、派发资料
  - 要解决的问题
  - 分解、派发任务
- 规范性操作的培养
  - 网络规划、布线、系统上线
- 专业工具的使用
  - Nmap, Wireshark, Mindmaple...

## ▶ 标准化

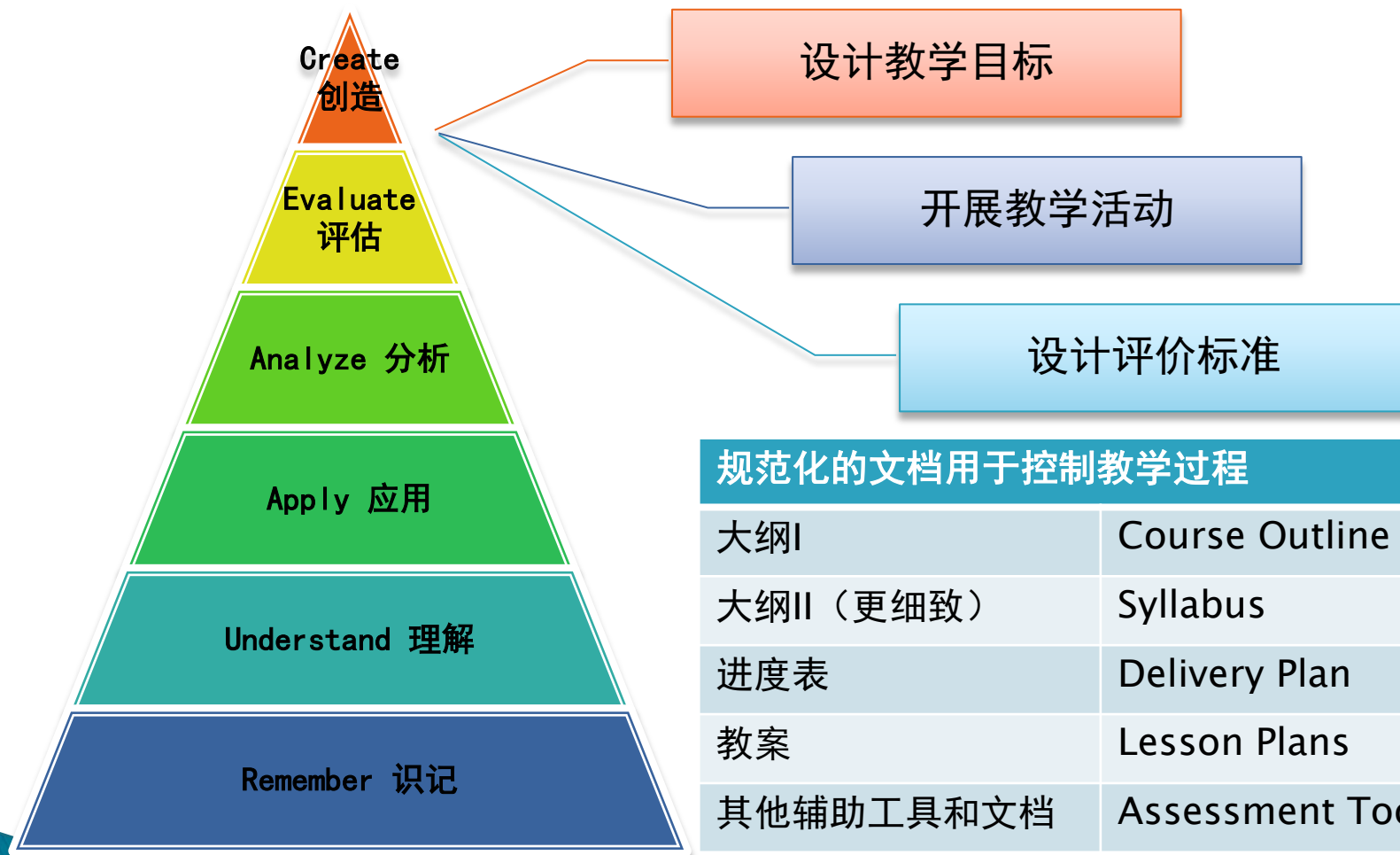
- Rob: 采用加拿大全国性通用的行业标准规范学生的报告撰写
- Chris: 在平时作业中即按照APA论文规范撰写调查研究报告

## ▶ 工程师素质

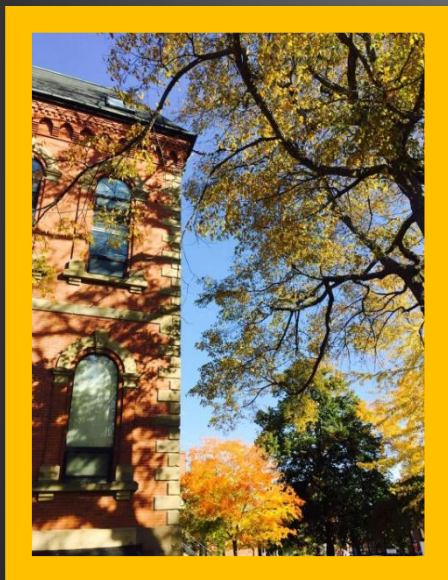
- 言传身教

# 教育理念与原则

## ——以竞争力为导向的教育



竞争力 = 知识 + 技能 + 态度



# 合作办学模式探讨

» 原则  
实施建议



# 原则与实施建议

## ▶ 充分信任，特事特办

- 强化英语教育，淡化意识形态对立
- 紧跟荷兰学院的专业设置及课程管理规范
- 细化资质认证的粒度，以课程为单位建立资质授予的体系

## ▶ 聚焦资源，打造精品

- 高投入才有高产出
- 宽进严出，建立良性循环



# 谢谢！



# SAM——学生成就管理系统

The screenshot displays the SAM (Student Achievement Manager) web application interface within a browser window. The browser's address bar shows the URL <https://sam.hollandcollege.com/default.asp>. The page features a header with the SAM logo and the text "student achievement manager". Below the header, a navigation bar includes a "Home" link and a user profile for "Haibo Liu". The main content area is divided into several sections:

- College Resources:** A list of links including "Course Outlines (QF132s), Program Course Lists, and Program Maps", "HollPass", "Library Services", "Staff eMail", "Student eMail", "Student Online Learning Readiness Checklist", and "WebAdvisor".
- My Courses:** A list of courses with checkboxes, roles, and task links:
  - ☐ CNET-2011 Cisco CCNA IV: Connecting Networks PWC  
**Role:** Student  
**Tasks:** [Link]
  - ☐ CNET-2040 Voice and Video Over Internet PWC  
**Role:** Student  
**Tasks:** [Link]
  - ☐ CNET-2110 Active Directory Infrastructure PWC  
**Role:** Student  
**Tasks:** [Link]
  - ☐ CNET-2201 Network Analysis and Design PWC  
**Role:** Student  
**Tasks:** [Link]
  - ☐ CNET-2210 Virtualization PWC  
**Role:** Student  
**Tasks:** [Link]
- Today's Calendar:** A section indicating "There are no events for today."
- News:** A section for news updates.
- Announcements:** A section with a view filter (View: Past **Present** All | Sort: Descending) and a message: "There are no new announcements."
- Google™:** A search bar with the text "Search" and a "Search" button.
- Community Groups:** A section for community groups.

At the bottom left, a sidebar shows a user profile for "Haibo Liu" and a status indicator "508 PDA".



# 计算机网络技术课程表

Semester Schedules for both First Year and Second Year students 2015-2016 Acedemic year

First Year Students

## SEMESTER 1 (September 8th - December 18th)

	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:00	A+ Hardware - Class (25C)	A+ Hardware - Lab (CNET Lab)	Prj Management - Class (81W)	CCNA I - Lab (CISCO Lab)	Prj Management - Class (81W)
10:00 - 11:00	Technical Comm. - Class (230W)	A+ Hardware - Lab (CNET Lab)	Technical Comm. - Class (230W)	CCNA I - Lab (CISCO Lab)	Technical Comm. - Class (230W)
11:00 - 12:00	CCNA I - Class (209W)	A+ Hardware - Lab (CNET Lab)	CCNA I - Tutorial (209W)	CCNA I - Lab (CISCO Lab)	Computer Essentials - Class (224C)
1:00 - 2:00		Computer Essentials - Class (209W)	A+ Software - Class (201W)	CCNA I - Lab (CISCO Lab)	A+ Software - Lab (CNET Lab)
2:00 - 3:00	Prj Management - Class (110W)			CCNA I - Lab (CISCO Lab)	A+ Software - Lab (CNET Lab)
3:00 - 4:00			Computer Essentials - Class (209W)	CCNA I - Lab (CISCO Lab)	A+ Software - Lab (CNET Lab)

## SEMESTER 2 (January 11th - April 22nd)

	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:00	Windows Server - Class	Windows Server-Lab	Intro to Business - Class	CCNA II - Lab (CISCO Lab)	
10:00 - 11:00	Programming - Class	Windows Server-Lab	Programming - Class	CCNA II - Lab (CISCO Lab)	
11:00 - 12:00	Programming - Class	Windows Server-Lab	Linux-Class	CCNA II - Lab (CISCO Lab)	
1:00 - 2:00	Security-Class	Intro to Business - Class	CCNA II - Class	CCNA II - Lab (CISCO Lab)	Linux-Lab
2:00 - 3:00	Security-Lab	Security-Class	CCNA II - Tutorial	CCNA II - Lab (CISCO Lab)	Linux-Lab
3:00 - 4:00	Intro to Business - Class	Security-Lab	Programming - Lab (3 - 4:30)	CCNA II - Lab (CISCO Lab)	Linux-Lab

Second Year Students

## SEMESTER 3 (September 8th - December 18th)

	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:00	CCNA IV - Class (209W)	CCNA IV - Lab (Cisco Lab)	Network Analysis&Design-Class (110W)	VVON-Lab (CNET Lab)	Virtualization-Class (110W)
10:00 - 11:00	CCNA IV - Tutorial (209W)	CCNA IV - Lab (Cisco Lab)	Network Analysis&Design-Lab (CNET Lab)	VVON-Lab (CNET Lab)	Tech. Project Prep -Class (229W)
11:00 - 12:00	Active Directory-Class (110W)	CCNA IV - Lab (Cisco Lab)		VVON-Lab (CNET Lab)	
1:00 - 2:00	Network Anaylysis&Design-Class (110W)	CCNA IV - Lab (Cisco Lab)	VVON-Class (110W)	Active Directory-Lab (CNET Lab)	Virtualization-Lab (CNET Lab)
2:00 - 3:00	Network Anaylysis&Design-Lab (CNET Lab)	CCNA IV - Lab (Cisco Lab)		Active Directory-Lab (CNET Lab)	Virtualization-Lab (CNET Lab)
3:00 - 4:00		CCNA IV - Lab (Cisco Lab)		Active Directory-Lab (CNET Lab)	Virtualization-Lab (CNET Lab)

## SEMESTER 4 (January 11th - April 22nd)

	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:00		Intro to Business - Class	Intro to Business - Class	Powershell - Lab	Technology Project - Class
10:00 - 11:00			Powershell - Class	Powershell - Lab	Technology Project - Lab
11:00 - 12:00	Ethics & Professional - Class			Powershell - Lab	Technology Project - Lab
1:00 - 2:00	Email Management - Class		Web Technologies -Class	Web Technologies - Lab	Technology Project - Lab
2:00 - 3:00	Intro to Business - Class		Email Management - Lab	Web Technologies - Lab	Technology Project - Lab
3:00 - 4:00			Email Management - Lab	Web Technologies - Lab	Technology Project - Lab