department was able to hire one new facorleymber, Dr. Jiaofei Zhong, to teach Computer Science theory. We have ahet search this year for angeral computer scientist with knowledge in topical areas such as big dataplication development, and cloud computing.

Our assessment plans have been moving for ware have mapped institutional learning

#### C. Program Changes and Needs

Since our last five year rewiv, two new hybrid courses have been added to the Computer Networks curriculum: Security Mobile, Wireless, Grid and Pervasive Computing (CS 4526) and Security Management (CS 4527).

# Faculty Data:

Name	Base	
Billard, Ted	0.11	(FERP)
Brown, Kevin	1.0	
Christianson, Leann		
Daley, Jim	0.22	(FERP)
Ertaul, Levent	1.0	
Grewe, Lynne	1.0	
Johnson, Matt	1.0	
Jurca, Dan	0.44	` ,
Reiter, Eddie	0.5	(FERP)
Roohparvar, Farzan	1.0	
Simon, Steve	0.44	(FERP)
Thibault, William	1.0	
Yang, David	1.0	
Yu, Ytha	0.5	(FERP)
Zhong, Fay	1.0	
Total:	11.21	

#### Resources and Needs:

The Computer Science Department was deterrally impacted by IT Centralization several years back. Up until last year, we had only one small computing lab with less than a dozen machines -- despite the numbest odents in the majors – and only one computer classroom. This year we were finably to obtain at least primary usage to a second newly renovated computer classroom,

in VBT. CS is still SEVEREY underequipped. Students offtery to make do with their own laptops and general purpospeace (like the Cave of the circums building), but this often leads to difficulties from incompatibles among their laptops. Many courses in the curriculum require dedicated servers threatisolated from the campus networks, as students write programs to interact or query threatisolated from the campus networks, as students write programs to interact or query threatisolated from the campus networks, as students write programs to interact or query threatisolated from the campus networks, as students write programs to interact or query threatisolated from the campus networks, as students write programs to interact or query threatisolated from the campus networks, as students write programs to interact or query threatisolated from the campus networks, as students write programs to interact or query threatisolated from the campus networks, as students write programs to interact or query threatisolated from the campus networks, as students write programs to interact or query threatisolated from the campus networks, as students write programs to interact or query threatisolated from the campus networks, as students write programs to interact or query threatisolated from the campus networks, as students write programs to interact or query threatisolated from the campus networks, as students write programs to interact or query threatisolated from the campus networks.

#### 2. SUMMARY OF ASSESSMENT (about 1 page)

#### A. Program Student Learning Outcomes

Students graduating with a Battler of Science in Computacience will be able to:

- 1. apply knowledge of mathematics and computer to appropriate problems in computer science
- 2. analyze a problem, and identify and define the sources and requirements needed for its solution
- 3. design and implement a programmeet stated needs
- 4. develop and maintain computer-basydtems, processes, and platforms
- 5. recognize and distinguish the mechanisms ponents and architecture of computing systems

6.

#### B. Program Student Learning Outcome(s) Assessed

- 1. apply knowledge of mathematics and computeral theory to appropriate problems in computer science
- 2. analyze a problem, and identify and define the sources and requirements needed for its solution

#### C. Summary of Assessment Process

We created SLOs and PLOs for the B.Scimputer Science in chacademic year 2012-2013. The Math and Computer Science Departmenthinch this degree is housed made the decision to use Blackboard as a means to provide studienthism assessmentation that addresses the SLOs of each course which are aligned to the PLOs for each program and the ILOs of the university. We have these in place for 11 keyrses in the Computer Science program at this time. The results of these exams are being storedseparate Blackboard shell repository for the department. Evaluating the results of these existentially as each assessment contains questions for multiple PLOs. We are currently king at averages over the entire exam, which is suboptimal. Due to this, we are considerint protoptions. The existing version of Blackboard unfortunately does not support aggregation acomparison of assessments across multiple courses.

We have also had a problem of oversubscribendsess. The university has limits on class sizes while students register for class during specific scheduled tinslets. Students have regularly signed up for many more courses than they intertalke, and drop courses at a later time. While this may seem like purely an administrative immornience, it does create concrete pedagogical problems. Because students join the prograviths varying backgrounds, incoming students in some sense compete with existing students for many of the same classes. Since incoming students register after existinguistents, they are the ones who after shut out of the classes they should be taking. This increases the chatthressend up trying toelarn material that is beyond them. To handle this problem, the departithressistanted to limit early registration for courses. Early indications are iting. New students have been also sign up for courses with very few complaints.

## Annual Data:

A. Student Headcount:

### C. Faculty Information:

Please note that the university does not calculuse see above (Program Netos)nformation

Computer Science, Computer Network, and Mathematical Faculty

Tenured/TrackMr

grams.

## D. Student Faculty Ratios:

Computer Science and Networks	Fall Quarter					
Student Faculty Ratios	2009	2010	2011	2012		2013
1. Tenured/Track	17.8	3 16.	.8 14	.7 17	7.1	19.
2. Lecturer	22.3	26.	4 23	.6 27	.5	30.2
3. SFR By Level (All Faculty)	18.8	3 17.	5 15	5.5 18	3.5	21.
4. Lower Division	26.7	24.6	22.	5 20	.8	24.9
5. Upper Division	18.0	17.	0 17.	.5 20	.2	21.4
6. Graduate	16.6	5 15.	9 10	1 14	4.5	19.

## E. Sections:

Computer Science and Networks		Fall Quarter				
Section Size	2009	2010	2011	201	2	2013
1. Number of Sections Offered	47.	0 39	9.7 4	7.8	37.0	45.