••• SATELLITE (SAT)

1• OVERVIEW

Definition:
- Learning is delivered using a satellite video combined with Voice (VoIP) audio from students

Facts:
- Satellite delivery is the method by which 35.05% of ODU's distance students receive their instruction

Audience:
- Non-Traditional, Working, Commuter, Undergraduate/Graduate, Continental US

2• LOGISTICS

Attendance:
- Classroom attendance is required

Meetings Frequency:
- Weekly meetings from remote locations (home, office)

Development Time:
- 1 month prior to course start date

Support:
- Operational/technical support for faculty during class; on-site technical help for students

Interactivity:
- Student/Content, Student/Instructor, Student/Student

Orientation Student:
- Required

Orientation Faculty:
- Recommended

3• TECHNOLOGY REQUIREMENT

Student Hardware:
- Computer, high bandwidth internet connection, sometimes (if hybrid): camera, headset/microphone

Student Software:
- Basic software, specialized software, and various plug-ins (Flash, QuickTime, Acrobat Reader, sometimes PVX, etc.)

Institutional Infrastructure:
- DL Satellite bandwidth for MPEG4 and VoIP, TTN classroom systems, Gornto/HEC classroom systems

4• PEDAGOGY

Content:
- Classroom lectures, limited demos, and simulations, self-study, etc.

Learning Activities:
- F2F/online interactive and small group activities, student and group presentations, papers, reports, projects, etc.

Interaction Synchronous:
- F2F interaction, telephone, virtual office hours, instant verbal feedback (non-verbal for students but not for faculty)

Interaction Asynchronous:
- Online interaction using email, threaded discussion, blogs, wikis, etc.

Assessment:
- Homework, quizzes, exams, projects, portfolios, presentation, etc

Proctor Requirement:
- Proctoring logistics or alternate assessment methods are required

5• AVAILABLE SUPPORTING TECHNOLOGIES

Lecture:
- Acrobat Connect

Synchronous Interaction & Collaboration:
- Acrobat Connect (outside of class meetings); Blackboard Chat (outside of class meetings)

Asynchronous Interaction & Collaboration:
- Blackboard Discussion, Blog, Wiki

Assignments and Assessment:
- Blackboard Tests, Surveys, Assignments, and Safe Assignments; Respondus and LockDown Browser; Questionmark

6• SUCCESSFUL TEACHING AND LEARNING REQUIREMENTS

Faculty Profile:
- Knowledgeable, enthusiastic, engaging, caring, motivating; creating a positive classroom climate; aware about student learning styles, constraints and interests; info-tech literate; visually literate; adaptable to change

Students Profile:
- Motivated, highly organized and disciplined, curious, engaged and excited about learning; info-tech literate

7• BENEFITS

Students- Pros:
- Timeliness of instructor feedback during class, interpersonal experience, interaction/collaboration with peers; multiple options for interacting with instructor (F2F, online); availability of programs in multiple geographic locations

Students- Cons:
- Limited to in-class time for activities, students somewhat isolated geographically

Faculty- Pros:
- Flexible planning, predictable workload; revisions to course for alternate delivery can be reused in F2F courses

Faculty- Cons:
- Rigidity of schedule, high volume of communication/contact, time consuming communication, high frequency of contact

Institutional- Pros:
- Satellite reaches large geographical areas without adding telecom costs to reach each site. One time fee covers USA. Wide bandwidths allow for high quality. University "owns" (not shares as in Internet) the pipe, therefore can guarantee quality

Institutional- Cons:
- Initial infrastructure investments are high. Minimum number of sites required - difficult for startup operations. Interactivity is not inherent in technology, but must be provided for via 2-way satellite (VSAT) or other secondary solution. Requires sophisticated engineering teams.

Showcase success stories:
- Satellite courses are sent to sites via satellite enable students to view the professor on a video monitor and to interact, in real time, via audio only

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