

**Marshall University**  
**2005-2006 undergraduate program assessment report**  
**Cytotechnology (CYT) B.S. Program**

**1. Assessment Activities:**

**A. Program Goals:** Program goals reviewed and updated by the department and the clinical faculty at Cabell-Huntington Hospital. The revisions did not redirect or change the established goals of the CYT program. A copy of the reviewed goals is attached.

**B. Outcomes/ Data Collection:**

- 1. Recruitment and admissions outcomes:** Applications for hospital schools of cytotechnology were reviewed for completeness and accuracy and forwarded to the program directors at Cabell-Huntington Hospital and Charleston Area Medical Center.
- 2. Internship outcomes:** The program assesses student success in the 12-month internships.
- 3. Graduate and Employment Outcomes:** The program assessed graduate satisfaction with the CYT program at Cabell Huntington: Hospital and graduate employment.
- 4. BOT Initiative 3 Compliance:** CLS faculty assess school performance on the certification examination for the Marshall students who attended Cabell-Huntington Hospital School of Cytotechnology.

**C. Results of CYT Program Assessment Efforts**

**1. Recruitment and admission outcome assessment 2005-2006:**

<b>Outcome</b>	<b>Method of Assessment</b>	<b>Benchmark</b>	<b>Actual Result</b>	<b>Conclusion</b>	<b>Evaluation</b>
Applicant Qualifications for 2005-2006 Internships	Hospital School Cytotechnology Admissions Committee	5 clinical spot Min. 2.5 Student GPA	3 applicant total 1 applicant did not meet the 2.5 requirement	Enrollment did not meet expectation regarding	Recruitment efforts are insufficient to fill all available Available Positions
Attrition 2004-2005	Attrition rate	0%	0% attrition	Met Expectation	Met Expectation
Graduation	Graduation Rate			Met Expectation	Met Expectation

**Result assessment:** One CYT applicant did not meet admissions criteria. Some of the requirements were not met and the GPA was below 2.5. The cytotechnology program continues to be highly selective. Further recruitment was done to make other Biology and chemistry students aware of the program and to have them directly apply to the Schools. There continues to be a lack of students who want to obtain this degree.

## 2. Internship outcome assessments 2004-2005

Outcome	Method of Assessment	Benchmark	Actual Result	Conclusion	Evaluation
12-Month Internship Completion rate spring, 2005	Student performance records	100% success rate			
2004-2005 class of students adequately	Student academic records, letters of application	No deficiencies identified	No deficiencies identified		
2004-2005 class of students adequately prepared	Student performance reports by CYT school program	No deficiencies identified	No deficiencies identified	No deficiencies identified	Met Expect

Result Assessment: There were no students who had applied for the class of 2004-2005. Cabell Huntington Hospital went on inactive status to renovate the cytotechnology area. The accreditation agency (CAAHEP) had only granted a two year renewal accreditation due to the impending renovations because the student class room would be eliminated during the renovations. After the renovations were completed, photos of the renovated cytotechnology area as well as the new student area were submitted to CAAHEP and full accreditation was granted until 2012.

## 3. Graduate and Employer Outcome Assessments 2004-2005

Outcome	Method of Assessment	Benchmark	Actual Result	Conclusion	Evaluation
Graduate Satisfaction	Exit survey of graduates by Department	Moderate level satisfaction	3 responses		
Employer Satisfaction	Interviews with lab managers Testimonials, Retention	Moderate level of satisfaction	0 lab managers interviewed for 2005		Objective employer survey is needed

Result assessment: The assessment of the employers of the cytotechnology graduates is the responsibility of Cabell Huntington Hospital, but Marshall University will be conducting a survey of supervisors of the laboratories during the 2006-2007 academic year. Cytotechnology will be included as it has been in the past..

## 4. Assessment of Program Review and Planning

Outcome: College structure actively promotes administration participation in program review and planning.

Method of Assessment: Ongoing committee and meeting structure, with meeting minutes:

Result Assessment: Program review and planning needs to promote more active support and input from the education coordinators and medical advisors from the two Schools of Cytotechnology. Although the communication has been better in the past two years than in previous years, there is still problems with communication. This will be addressed in the 2006-2007 year, to try to be more pro-active in the planning and recruitment process. Program structure otherwise promotes continuing program review and planning.

5. 2006 Graduate performance on the Board of Registry CYT examinations

Outcome	Method of Assessment	Benchmark	Actual Result	Conclusion	Evaluation
2006 Graduates CHH School of Cytotechnology	CYT School Program reports	≥National Mean Pass Rate			

2. Plans for 2006-2007

The CLS Department hopes to improve the objectivity of graduate exit and employer surveys. This will be done in consultation with the education coordinators of the Schools of Cytotechnology so that the surveys may be used by all facilities in assessing the effectiveness of the programs.

3. Assistance needed:

The CYT program needs a higher profile on the MU campus. Likewise, high school science teachers and counselors should supply students with information about this profession.

4. The one most important thing the CYT Program learned through this process:

Applications for the cytotechnology program remain low despite the national acute shortage of cytotechnologists. Cytotechnology remains a highly selective and nearly invisible bachelor's degree program, but serves WV well in providing health care organizations with professional graduates who provide services for early diagnosis of cancer. One of the commercial laboratories that provides cytotechnology services has expanded their office in South Charleston to employ 50 cytotechnologists because of the two schools of cytotechnology in the area. Nationwide there are only 43 Schools of Cytotechnology. Both Schools of Cytotechnology value the undergraduate education that is received by the students at Marshall University and will continue to accept MU students into the Cytotechnology hospital based programs.

## **Goals: MU Cytotechnology Bachelor of Science Degree Program**

### **A. Overall goals**

1. Select qualified applicants from Marshall University for internships at selected accredited Schools of Cytotechnology
5. Provide undergraduates with access to internship experiences that prepare them for entry into the medical laboratory workforce in professional cytotechnologist and to earn the Bachelor of Science degree through Marshall University.
6. Provide undergraduates with access to internship experiences that prepare them with knowledge and experiences necessary for national certification as cytotechnologists.
7. Prepare graduates to meet proficiency requirements for general science, computer literacy, intensive writing, capstone experiences, international, multicultural, and other requirements established by Marshall University.

### **B. CYT Program curriculum, Instruction and Accreditation**

1. CLS Department, in cooperation with affiliated Schools of Cytotechnology, will maintain a Bachelor of Science curriculum appropriate for preparing students for the profession cytotechnology
2. The CLS Department will continue to offer CLS 460 Laboratory Management to the cytotechnology students during their clinical practicum.
3. The MU CLS Department will affiliate only with Schools of Cytotechnology accredited through the Council on Accreditation of Allied Health Education Programs (CAAHEP)
4. The CLS Department will provide academic and professional advisement for students seeking internships in cytotechnology.
5. Require each student to have achieved at least a minimum level of proficient performance and knowledge in general studies, mathematics, biology, chemistry before admission to a hospital School of Cytotechnology.
6. The CLS Department will teach and evaluate the performance by successive classes of graduates taking national board examinations.