

**TABLE 1****Comparison of laboratory examinations.**

	Practical I	Practical II	Written I	Written II
Mean	76.5%	94.76%	59.5%	67.5%
Standard deviation	6.42	1.13	0.05	5.91
Number	7	7	7	7
p value	< 0.05		> 0.05	

**TABLE 2****Comparison of midterm and final grades for Hematology I.**

	Midterm grade	Final grade
Mean	80.29%	81.14%
Standard deviation	4.75	3.89
Number	7	7
p value	> 0.05	

**TABLE 3****Course and external assessments for Heme I and II.**

	Heme I (spring 2020)			Heme II (fall 2020)			Clinical (spring 2021)	Board exam
	Course final grade (%)			Course final grade (%)			Hospital practicum	Hematology subspecialty of BOC**
Student	Lab	Lecture	Overall	Lab	Lecture	Overall	Evaluation	
1	90	83	86.5	94	90	92	100* (OC)	pass
2	79	79	79	91	81	86.5	95 (Hos)	***NA
3	84	81	82.5	87	84	85.5	95 (Hos)	pass
4	72	79	75.5	79	80	79.5	90 (Hos)	***NA
5	81	90	85.5	90	88	89	100 (Hos)	pass
6+	79	78	78.5	84	82	83		
7****	80	81	80.5					
8++				89	82		80* (OC)	***NA

Note. \*OC = clinical practicum completed at the university's campus; Hos = clinical practicum completed at a hospital affiliate.  
 \*\*Board of certification (BOC) examination administered by American Society for Clinical Pathology for medical laboratory scientists.

\*\*\*Did not yet take board exam.

\*\*\*\* Did not take Heme II in fall 2020.

+ Not eligible for clinical practicum in spring 2021.

++ Returning student; did not take Heme I in spring 2020.