Table 1. Selected Interstellar Absorption Lines for Astronomy 301 HST Project

Species	Transition Wavelength (Å)	f	(Qualitative) Line Strength	Dust Depletion	Comment
O I . . .	1355.598	1.16e-6	*Very weak*	Light	Most abundant metal
O I . . .	1302.168	5.190e-2	Very strong	Light	
N I. . . .	1199.550	1.300e-1	Very strong	Light	
N I. . . .	1200.223	8.620e-2	Very strong	Light	
N I. . . .	1200.710	4.300e-2	Very strong	Light	
S II . . .	1250.584	5.430e-3	Intermediate	Light	
S II . . .	1253.811	1.090e-2	Intermediate	Light	
S II . . .	1259.519	1.660e-2	Intermediate	Light	
P II . . .	1152.818	2.361e-1	Strong	Light	
P II . . .	1301.874	1.725e-2	Weak	Light	Close to strong O I λ1302.17
Cl I . . .	1347.240	1.530e-1	*Very weak*	Light	Confused by chemistry
Ge II . .	1237.059	8.756e-1	*Very weak*	Light	
Kr I. . .	1235.830	1.871e-1	*Very weak*	Light	Confused by ionization
Mg II .	1239.925	6.320e-4	Weak	Moderate	**START HERE**
Mg II .	1240.395	3.560e-4	Weak	Moderate	**START HERE**
Mn II .	1197.184	2.170e-1	Weak	Moderate	
Mn II .	1199.391	1.059e-1	Weak	Moderate	Close to strong N I λ1199.55
Mn II .	1201.118	8.809e-2	Weak	Moderate	Close to strong N I λ1200.71
Si II. . .	1190.416	2.930e-1	Very strong	Moderate	
Si II. . .	1193.290	5.850e-1	Very strong	Moderate	
Si II. . .	1260.422	1.180e+0	Very strong	Moderate	
Si II. . .	1304.370	9.170e-2	Very strong	Moderate	
Si II. . .	1526.707	1.320e-1	Very strong	Moderate	
Ga II .	1414.402	1.799e+0	Weak	Moderate	
Cu II. .	1358.773	3.803e-1	Very weak	Moderate	
Fe II . .	1608.451	5.800e-2	Very strong	Heavy	
Fe II . .	1611.201	1.360e-3	Very weak	Heavy	
Ni II . .	1317.217	7.480e-2	Weak	Heavy	
Ni II . .	1370.132	7.690e-2	Weak	Heavy	
Ni II . .	1454.842	3.230E-2	Very weak	Heavy	

Table 2. Tracers of Highly-Ionized Interstellar Gas

Species	Transition Wavelength (Å)	f	(Qualitative) Line Strength	Dust Depletion	Comment
N V . . .	1238.821	1.56e-1	Weak	Light	Tends to be broad
N V . . .	1242.804	7.80e-2	Weak	Light	and shallow
Si IV . .	1393.755	5.14e-1	Strong	Moderate	
Si IV . .	1402.770	2.55e-1	Strong	Moderate	
C IV . .	1548.203	1.91e-1	Strong	Moderate	
C IV . .	1550.777	9.52e-2	Strong	Moderate	
Si III . .	1206.500	1.67e+0	Very Strong	Moderate	
S III . .	1190.203	2.31e-2	Weak	Light	Often blended with Si II 1190.416